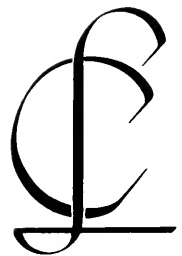


# LYCOMING COLLEGE





Lycoming is a coeducational liberal arts college with a student body of 1,500, approximately 900 men and 600 women. A United Methodist related institution, Lycoming is open to students regardless of their religious, racial, or national backgrounds.

# LYCOMING COLLEGE



CATALOG 1973-74



# THIS IS LYCOMING

Lycoming College encourages the search for meaning within a world of changing values. Although its primary thrust is within the liberal arts, the College recognizes the importance of vocational emphases to assure competency in the world of work.

Lycoming College firmly believes that the search for values within the historical setting of religious concern must be the function of the entire institution. Free inquiry is essential to the pursuit of truth and self-understanding. All of campus life, and not simply the activities of classroom and chapel, must actively assist the student to discover his true vocation as a human being.

Free inquiry is essential to the pursuit of truth and self-understanding. Within an atmosphere in which moral and religious values are considered important, Lycoming College stresses:

Competency in the use of language and appreciation for literature;

Understanding of the basic principles of mathematics;

Analysis of relationships and values through the study of philosophy and religion;

Experience in scientific method and knowledge with at least an introduction to the biological and physical sciences;

Basic understanding of the fine arts through an introduction to music, the theatre, or the history of art;

Experience in the methods and content of the social sciences, and the behavioral sciences, with at least an introduction to economics, sociology, history, political science, or psychology.

The importance of maintaining sound physical and mental health.

Beyond the level of general education, the College stresses the pursuit of a major. This presses you to achieve competency in a more limited area and encourages greater depth and sense of academic achievement. The major relates to increased understanding of yourself and your world; it leads both to graduate school and to vocation. Majors are not confined to single departments of the College; increasingly they are interdepartmental in nature, thus permitting the student a wider range of experience in related fields.

Founded in 1812 as Williamsport Academy, it is the oldest educational institution in the city of Williamsport. At first, the Academy served only the young through what are now recognized as the elementary grades. With the advent of public schools in the city, the Academy expanded its curricular offerings to include high school and college preparatory work.

#### 4/ THIS IS LYCOMING

In 1848, under the patronage of The Methodist Episcopal Church, the Academy became Williamsport Dickinson Seminary. The Seminary continued as a private boarding school until 1929 when once again its offerings were expanded, this time to include two years of college work. This expansion resulted in a change of the institution's name to Williamsport Dickinson Seminary and Junior College. During its years as a junior college under President John W. Long, the institution forged a strong academic reputation, strengthened its faculty, and expanded its physical plant.

Increasing national demands for higher education following World War II prompted another significant step in the growth of the institution. In 1948, the junior college became Lycoming College, a four-year degree-granting college of liberal arts and sciences.

The College has enjoyed the support and stabilizing influence of The United Methodist Church for more than a century. During most of that period the corporate stock of this institution was owned by the Preachers' Aid Society of the Central Pennsylvania Conference. In 1970 all corporate stock was transferred to a self-perpetuating Board of Trustees of Lycoming College.

Lycoming is approved to grant baccalaureate degrees by the Pennsylvania Department of Education. The College is accredited by the Middle States Association of Colleges and Secondary Schools and the University Senate of The United Methodist Church. It is a member of the National Commission on Accrediting, the Association of American Colleges, the Pennsylvania Association of Colleges and Universities, the Commission for Independent Colleges and Universities, and the National Association of Schools and Colleges of The United Methodist Church.

The name Lycoming is derived from an Indian word "lacomic" meaning "Great Stream". It is a name that has been common to north central Pennsylvania since colonial times.



# ADMISSIONS

## ADMISSION POLICY

Selective admission is based on academic achievement reflected in high school records, class rank, and ACT or SAT scores. In addition, subjects studied, counselor and teacher recommendations, and other available information that might identify qualified candidates are considered.

## ADMISSION STANDARDS

1. You should graduate from an approved secondary school or fulfill the requirements for early admission.
2. Although a set pattern of high school subjects is not required, a strong program of academic subjects is recommended as the most desirable preparation for college. You should have a minimum of fifteen academic units with substantial work in the areas of English and mathematics, and additional work in foreign language, social studies, and science.
3. The College Board Scholastic Aptitude Test or American College Test is required. Your scores are considered with other academic information.

## SELECTION PROCESS

You should file your application between October 1st and May 1st. However, your application may be considered after May 1st., if space is available.

Although it might seem, with the emphasis placed on test scores, class rank, and other statistical information, that numbers are all important, this premise is not entirely so. Much time is devoted to reading your application, personal recommendations, counselor's evaluations, and other available information. In addition, phone calls and letters are frequently exchanged in an effort to discern your special talents and qualities which could play an important role in your success as a student at Lycoming. Each candidate is carefully considered in a very personal way.

The College notifies applicants of acceptance on a rolling schedule. Your notification letter will be sent soon after your credentials have been received. In some instances, it may be necessary to request your senior mid-year grades and senior ACT or SAT score reports. Your decision to attend Lycoming must be made on or before the Candidate's Reply Date of May 1st. The College should be notified by payment of a \$100.00 deposit. After May 1st., this deposit is non-refundable to students who fail to matriculate. For enrolling students, this is not an extra charge, but it is used to reserve a space at the College for the fall and each succeeding semester for which the student is eligible to return. It will be applied toward the charges of the last semester in attendance, normally the semester prior to graduation. When a student decides to terminate his enrollment at Lycoming prior to graduation, this fee will be refunded when a written request is made to the Registrar before the end of the student's eighth week of his last semester.

## APPLICATION PROCEDURE

1. To apply for admission, request forms from the Director of Admissions.
2. These items must be submitted before you are considered for admission:
  - A. Completed application for admission and secondary school transcript.
  - B. Fee of \$15, which is a processing charge and is not refundable.
  - C. Results from the American College Testing Program or the Scholastic Aptitude Test of the College Entrance Examination Board.
3. You and your family are invited to visit the campus and to meet with a representative of the Admissions Office. You will have an opportunity to review your credential file, to discuss your plans, and to ask and answer questions.

## MEDICAL HISTORY AND PHYSICAL EXAMINATION

Each student entering the college is required to submit a medical history record and a physical examination form prior to arriving on the campus. A parent or guardian of each student under twenty-one years of age must sign the health record which authorizes the college health authorities to give emergency medical treatment according to good medical practice. In the event an operation or other treatment is required for a serious accident or illness, the College Physician will always secure prior parental consent if the circumstances permit.





## COURSE CREDIT BY EXAMINATION

### *ADVANCED PLACEMENT*

If you are entering as a freshman, have studied an advanced course while in secondary school, and have taken the appropriate advanced placement examination of the College Entrance Examination Board, you are encouraged to apply for credit and advanced placement. A grade of three or above is generally considered to be satisfactory.

### *COLLEGE LEVEL EXAMINATION PROGRAM — (CLEP)*

You may earn college credit for superior achievement on the College Level Examination Program (CLEP) sponsored by the College Entrance Examination Board. By achieving at the 75th percentile or above on the General Examinations and the 65th percentile or above on the Subject Examinations, you may earn up to fifty percent of the course requirements for a bachelor of arts degree. These examinations are administered the third week of each month at regional testing locations around the nation. Further information may be obtained from the Office of Admissions. While these examinations may be taken after enrollment at the College, entering freshmen are encouraged to take the examinations of their choice during the second semester of their senior year in high school. If you do so, the College will have the test scores prior to your registration. This will assure appropriate course credit prior to your selection of freshman courses.

### ADVANCED STANDING BY TRANSFER

Lycoming College recognizes college level course work you have completed at other institutions. You must submit official copies of transcripts from all institutions you have attended. Your academic standing will be based on an evaluation of all courses taken. All courses passed, which are comparable to the curriculum at Lycoming, will be accepted for transfer. However, the final eight courses must be taken at Lycoming College. You must be in good academic standing with a minimum grade point average of 2.0 (C) to be considered for admission.

### EARLY ADMISSION

A number of high schools have accelerated and enriched their programs to the degree that the advanced student may be intellectually and emotionally ready for the collegiate experience by the close of the junior year in high school. Lycoming College is willing to consider and admit these students to the freshman class each year.



## EARLY ADMISSION PROCEDURE

1. Your high school counselor recommends you for early admission.
2. Your parents approve the advancement as preferable to the senior year at the high school.
3. After consultation between you, your parents, your school administrators, and College personnel, you complete the regular application procedure.
4. You are admitted with full freshman standing. At the successful completion of your freshman year, your high school receives a grade report from the College. The high school then usually awards its standard diploma.

## ADMISSION AS A SPECIAL STUDENT

Persons who wish to take one or more courses and are not regularly enrolled at Lycoming may apply for admission to any term as a special student. Application forms are available from the Admissions Office.

## PROVISIONS FOR VETERANS

Lycoming is fully approved for the educational program for veterans under Federal Public Laws 550, 634, and 894.

## ADMISSIONS OFFICE

The Admissions Office is located on the first floor of Long Hall. For an appointment please write or call the Admissions Office. The telephone number is Williamsport 717 326-1951. *Office hours are:*

Monday through Friday.....9:00 a.m. to 4:30 p.m.  
 Saturday .....9:00 a.m. to 12:00 noon  
 June, July, August - 4:00 p.m. closing and no Saturday hours.

## ORIENTATION

The orientation program at Lycoming is designed to help the student entering college for the first time to start this new adventure under the most favorable circumstances. An entirely new concept of courses, class scheduling, and methods of instruction must be assimilated. Adjustments to this new experience are important.

In order to prepare you for the beginning of this experience, Lycoming schedules four to six orientation sessions lasting two and one half days during the summer. Each new student is required to attend one of these sessions accompanied by at least one parent.

The summer program makes it possible to schedule ample time for academic advisement, placement testing, library orientation, and registration. The college is able to work more satisfactorily with you in planning programs of study tailored to your vocational and academic interests. You complete all preliminaries, including registration, during the summer orientation period. Textbooks are available for purchase and perusal prior to the opening of classes in the fall.

Information about the dates of orientation sessions and a pre-registration form will be mailed to you when you are confirmed at Lycoming College.





# FINANCIAL INFORMATION

## EXPENSES

Lycoming recognizes the problem of constantly increasing educational costs and offers a substantial program of financial aid to assist those needing help to attend an excellent private coeducational college.

If you are academically qualified you should not hesitate to apply to Lycoming College solely because of financial need. At Lycoming, we make every effort to assure that qualified students are not barred due to their limited resources.

The expenses listed below have been kept as low as possible through regular voluntary contributions from alumni and friends plus income from invested endowment funds. This gift income has permitted Lycoming to develop a well-qualified academic community and to continually improve its excellent facilities.

Thus at Lycoming you will receive much more than any fees you pay would buy—a rare bargain in today's economy. And if our "bargain" price is still beyond your means, our financial aid office will assist you as much as possible, as outlined beginning on page 15.

## GENERAL EXPENSES FOR THE ACADEMIC YEAR 1974-1975

The Comprehensive Fee at Lycoming is \$1,150.00 per semester, plus special charges which are listed on the following pages. A residence hall room costs \$250.00 per semester except for East Hall where an extra charge of \$12.00 or \$25.00 is charged depending on facilities provided. Board is \$325.00 per semester. If, for justifiable reason, it is impossible for a student to eat in the College Dining Room, permission may be granted to make other meal arrangements. However, when such permission is granted, the room cost will be 50% higher. If you request the use of a double room as a single room, an available room costs 50% more than its regular rate.

The comprehensive fee covers the regular load of three or four unit courses each semester. If there should be a considerable increase in the price of commodities and/or services during any semester, the College reserves the right to make appropriate increases in the charges for the following semester. Additional detailed information will be furnished by the Treasurer's Office upon request.

## APPLICATION FEE AND DEPOSITS

All students applying for admission are required to send an application fee of \$15.00 with the application. This charge is to defray the cost of processing the application and maintaining academic records and it is non-refundable.

After you are notified that you have been accepted for admission by the College, you are required to make a deposit of \$100.00. This deposit is evidence of your good intention to matriculate and is applicable to the general charges of your final semester in attendance; it is not an extra fee. This deposit is not refundable if you fail to matriculate at Lycoming.

All resident students are required to make an additional Room Security Deposit of \$50.00. If, as a resident student, you are not assessed for any damage to your room in the residence hall, the Room Security Deposit is fully refunded when you no longer live in the residence hall.

## EXPENSES IN DETAIL PER SEMESTER—ACADEMIC YEAR 1974-1975

The College reserves the right to adjust fees at any time.

## ONE-TIME FEES AND DEPOSITS

Resident Students		Non-Resident Students
\$ 15.00 .....	Application Fee .....	\$ 15.00
\$ 100.00 .....	Admission Deposit .....	\$ 100.00
\$ 50.00 .....	Room Security Deposit	

## PER SEMESTER (1974-75)

\$1,150.00 .....	Comprehensive Fee .....	\$1,150.00
\$ 250.00 .....	Room	
\$ 325.00 .....	Board	
<u>\$1,725.00</u> .....	Basic Cost .....	<u>\$1,150.00</u>

## FEES FOR PART-TIME STUDENTS

Application Fee .....	\$ 15.00
Each Unit Course .....	\$ 275.00

## ADDITIONAL CHARGES

Fifth Unit Course .....	\$ 275.00
Laboratory Fee per Unit Course .....	\$5.00 to \$ 30.00
Applied Music Fee (Half-Hour per Week per Semester) .....	\$ 50.00
Practice Teaching Fee (Payable in Junior Year) .....	\$ 80.00
Transcript Fee (No charge for first transcript) .....	\$ 1.00
Cap and Gown (Rental at prevailing cost)	

## BOOKS AND SUPPLIES

A book and supply store is conveniently located in Wertz Student Center. The estimated cost ranges from \$75.00 to \$150.00 per year depending on the course of study which you pursue.

## PAYMENT OF FEES

The basic fees for each semester are due and payable ten days before the beginning of that semester.

## PARTIAL PAYMENTS

For the convenience of those who find it impossible to follow the schedule of payments as listed, arrangements may be made with the College Treasurer for the monthly payment of college fees through various educational plans. Additional information concerning partial payments may be obtained from the Treasurer or Director of Admissions.

## WITHDRAWALS AND REFUNDS

The date on which the Dean of the College approves the student's withdrawal form is considered the official date of withdrawal. In the case of minors, the approval of the parent or guardian is required before the withdrawal is approved and before any refund is made.

Room charges are fixed on a semester basis. If you leave college prior to the end of a semester you will not be entitled to any refund of room charges.



## 14/ FINANCIAL INFORMATION

Refund of tuition and board will be made to students who withdraw voluntarily from the college while in good standing and is fixed on the following basis: Students leaving during the first four-week period are charged thirty percent; during the second four weeks, sixty percent; during the third four weeks, ninety percent; after twelve weeks, full charge.

Dropping a unit course from the original schedule after the first week of either semester will not justify any claim for refund of tuition charges. No refund will be made to those students who are asked to withdraw from the college. Special charges cannot be refunded for any reason whatever.

### PENALTY FOR NON-PAYMENT OF FEES

You will not be registered for courses in a new semester if your account for previous attendance has not been settled. No grades will be issued, no diploma, transcript of credits, or certification of withdrawal in good standing will be granted to any student until a satisfactory settlement of all obligations has been made.

### DAMAGE CHARGES

Wherever possible, damage to dormitory property will be charged to the person or persons directly responsible. Damage and breakage occurring in a room will be the responsibility of students occupying the room.

Halls and bathroom damage will be the responsibility of all students of the section where damage occurs. Actual costs of repairs will be charged.

### ACCIDENT AND SICKNESS INSURANCE

As a resident student, you must purchase the Accident and Sickness Group Insurance Plan of the college for the academic year, unless you can present evidence that you are covered under some other health insurance program. Non-resident students may participate in the College Group Insurance Plan on a voluntary basis. If a resident student becomes ineligible under another plan because of age, he must enter the college program in the semester in which he loses his other coverage. The insurance plan will also be available for twelve-month coverage on a voluntary basis for all students. Information concerning the plan and its benefits will be sent to all students during the summer.





## FINANCIAL AID

In considering the financing of your college education both the expenses involved and the various methods of meeting them should be considered simultaneously. At Lycoming, if you need financial aid, a generous program of assistance can help to lower your out-of-pocket cost significantly.

Since you will be the primary beneficiary of your higher education, we feel you should assume part of the responsibility for paying your college expenses. You can do this by saving, working, and borrowing. We expect you to make every effort to obtain financial support from such outside sources as state and local grants, company scholarships for employee's children, and other funds you may be eligible to receive.

A student's parents are often an important source of financial help. Some families of modest means can give only moral support, but most also can give substantial financial help. We are eager to help you and your parents to meet your educational expenses at Lycoming but expect each family to pay as much as it can reasonably afford and at least as much as other families in similar financial circumstances.

The establishment of need is the controlling factor in determining the amount of any financial aid. A scholarship may be awarded on the basis of financial need and academic ability, while a grant is given on the basis of financial need alone. Long term, low cost educational loans are available to most students who need them from Federal and State sources. If your academic standing is satisfactory, a portion of your college expenses can be earned by part-time work.

Financial need is determined by deducting what you and your parents can reasonably contribute toward your education from the actual cost of attending Lycoming College. You are eligible to be considered for financial aid up to the part of the cost which it is impossible for you to provide. Your family's total financial situation is judged. Not only gross income and net assets are considered, but also the number of dependent children, unusual medical expenses, marital status of parents, brothers or sisters attending college, and other pertinent data.

To apply for financial assistance, obtain the "Parents Confidential Statement" form from your high school guidance counselor or the Financial Aid Office at Lycoming. Submit the completed "Parents Confidential Statement" to the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540, at the earliest convenient date.

## SCHOLARSHIPS

A number of scholarships are awarded to freshmen applicants who are in the top fifth of their high school class and have a combined score over 1200 in the College entrance Board Tests. The scholarships range from \$300 to full tuition depending upon the student's financial need. These scholarships are renewed each year if the student maintains a 3.0 cumulative average and financial need continues.

There are a number of Freshmen Recognition Scholarships of \$500.00 each awarded to applicants who have superior academic qualifications but do not demonstrate any financial need. These scholarships are only for the student's first year at Lycoming.

## GRANTS-IN-AID

For worthy students who can not qualify for scholarships, Lycoming has an extensive program of grants-in-aid up to full tuition. Awards are based on demonstrated need and the prospect of the student contributing positively to the college community. Renewal requires continued financial need, maintenance of satisfactory academic and citizenship standards, and participation in college activities.



## MINISTERIAL GRANTS-IN-AID

Each applicant for a ministerial grant-in-aid should complete the College Scholarship Service form. If there is demonstrated need for more financial assistance than a ministerial grant-in-aid will provide, additional types of aid will be considered. The ministerial grant-in-aid will be part of a total award to meet a demonstrated need—it will not be given in addition to awards which will meet established needs.

Children of Ministers of the Central Pennsylvania Annual Conference of The United Methodist Church receive grants equal to one-third of the charges for tuition.

Children of Ministers of other Annual Conferences of The United Methodist Church and of other denominations receive grants equal to one-fourth of the charges for tuition.

Students preparing for the Christian ministry receive grants equal to one-fourth of the charges for tuition. They must satisfactorily complete the application for pre-ministerial discount, file an application for financial aid, and demonstrate financial need.



### FEDERAL BASIC EDUCATIONAL OPPORTUNITY GRANTS (BEOG)

The Educational Amendments of 1972 established this new program of basic grants up to \$1400 per year for full time students which are granted on the basis of financial need. Separate application to the Federal government is required. These applications are available from high school guidance offices and from the Financial Aid Office. All students should apply for the BEOG program.

### FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)

This is a Federal program to provide additional assistance to those students with heavy financial need. Awards are made of \$200 to \$1,500 and are based entirely on financial need. Renewal is available if the applicant has no reduction in financial need in succeeding years.

### FEDERAL NATIONAL DIRECT STUDENT LOANS (NDSL)

Federal loan funds are available under the National Defense Education Act of 1958. Loans up to \$1,000 per year are granted on the basis of academic promise and demonstrated need. Repayment does not begin until after graduation or withdrawal. Loans are normally renewed yearly if the applicant files a renewal application by May 1st.

### FEDERAL COLLEGE WORK-STUDY GRANTS (CWSP)

An opportunity is provided for students to earn some part of their College expenses and gain some practical experience from working on campus or in selected off-campus programs. The Federal income guidelines must be met to be eligible for work-study awards. There are opportunities for campus employment for those students who can not meet the Federal guidelines but who desire employment; these students should file an application with the Placement Office.



## **OTHER SOURCES OF FINANCIAL ASSISTANCE**

### **STATE GRANTS**

All applicants for financial aid are strongly urged to investigate programs sponsored by their home state and to apply before the deadline. Pennsylvania applicants should apply for state aid before the deadline (normally January 30th) during their senior year in high school. See your guidance counselor or write: P.H.E.A.A., Towne House, Harrisburg, Pa. 17102.

### **STATE GUARANTEED LOANS**

Pennsylvania, New Jersey, New York, and most other states provide state guaranteed loans through local banks. This program provides long-term loans for educational expenses with repayments over an extended, liberal payment schedule. See your own bank early for information.

### **COMMUNITY SCHOLARSHIPS**

In many communities there are local groups and foundations which provide funds to help worthy students. High School awards are often available. Your guidance counselor and principal are the best sources of information.

### **EDUCATION FINANCING PLANS**

In addition to direct financial aid described above, the Business Office or the Financial Aid Office will provide information, upon request, about plans enabling parents to pay college expenses on a monthly basis through selected companies.

Additional information concerning financial aid can be obtained by writing to the Financial Aid Office, Lycoming College, Williamsport, Pa. 17701.







# CAMPUS LIFE

## STUDENT ACTIVITIES

The college considers one of its responsibilities to be the encouragement of as many different activities as are necessary to provide all students with the opportunity to participate constructively in this area of student life. Departmental clubs; athletics, both intercollegiate and intramural; varied interest groups such as clubs, choir, band; social organizations; social activities; self-governing groups; and many informal associations are important in a well-integrated program of student activities.

### STUDENT ASSOCIATION OF LYCOMING COLLEGE

The Student Association of Lycoming College is the channel through which students communicate with fellow students, administrators, and faculty. SALC is the representative voice of all students and the group which the College recognizes as the spokesman for students. The SALC can be a forum where student concerns, needs, desires, and grievances can be discussed and effectively communicated to the administration and faculty.

The primary concern of SALC is the promotion of student involvement in college concerns. As one responsibility of SALC, its president appoints students to appropriate student/faculty and administrative committees and councils. They have the same individual voting privileges as faculty and administrators. Any interested student is eligible for appointment to these committees which play an important role in the functioning of the College.

### STUDENT UNION

The Student Union Board is an advisory and functional group of students who work with an Assistant Dean of Students who helps to develop the activity and social program. Students are selected for membership on the Board after they have served a year in the Apprentice Program.

The Board's services to the campus include poster making and publicity, a travel service, social programs, dances, lectures, concerts, picnics, films, tournaments, recreational activities, bridge, life-saving courses, coffee-hours, and intercollegiate events.





## CAMPUS CLUBS AND ORGANIZATIONS

A variety of organizations on the campus provide opportunities for social and intellectual growth. These groups are organized and conducted by students in cooperation with faculty sponsors or advisors.

Some of the groups are: the Student P.S.E.A.—N.E.A., which gives prospective teachers current information on the teaching field and an insight into the problems of education; the Varsity Club, composed of lettermen, which promotes college spirit in sports; the Business Club for students majoring in business administration; the French, German, Russian, and Spanish Clubs, which study the language and the life and culture of the countries; the Model United Nations Society; the Practical Politics Society; political clubs, and the Associated Women Students.

## COLLEGE PUBLICATIONS AND COMMUNICATIONS

*The Bell*, official student newspaper, is published weekly and is devoted to interests of the student body, reporting current campus events.

*The Arrow*, college yearbook, is published in August and presents a record of student life during the previous academic year.

*The Guidepost*, published annually by the Student Association and Office of Student Services, is a handbook of policies, regulations, and other information.

*The Residence Halls Handbook* is published annually by the Office of Student Services and provides information about residence hall facilities, activities, governance, rules, and regulations.

NOTE: Both the *Guidepost* and the *Residence Hall Handbook* are important statements of official College policy and regulations which you will receive before you arrive on campus.

*The Academic Bulletin* is published periodically by the Dean of the College to keep students, faculty, and administrators informed of academic affairs.

*The Lycoming*, eight newspaper and two magazine editions yearly, informs alumni and friends about Lycoming. Students and faculty contribute articles.

*The Campus Radio Station*, WLCR, broadcasts on a wired circuit to all residence halls. It is operated daily from 8 a.m. to 2 a.m., except Sunday when it is on the air on a more limited schedule.

## FINE ARTS ACTIVITIES

The *Arena Theatre* stages many productions throughout the year. You have an opportunity to enjoy serious drama, comedies, readings, recitals, and even marionette productions, or you can participate—from acting through all the behind-the-scene activities.

Musical organizations at Lycoming offer to vocalists and instrumentalists alike a fine opportunity to learn by doing. There are several choral groups and instrumental ensembles offering every able student the chance to participate both on the campus and on tour.

If you are interested in art you can work in many mediums. Many professional artists, lecturers, and performers exhibit and appear on campus and in the area.

## FRATERNITIES

Six Greek fraternities provide male students with the advantages of national fraternities. Activities of Kappa Delta Rho, Sigma Pi, Lambda Chi Alpha, Theta Chi, Alpha Sigma Phi, and Tau Kappa Epsilon are coordinated by I.F.C.

## INTERCOLLEGIATE SPORTS

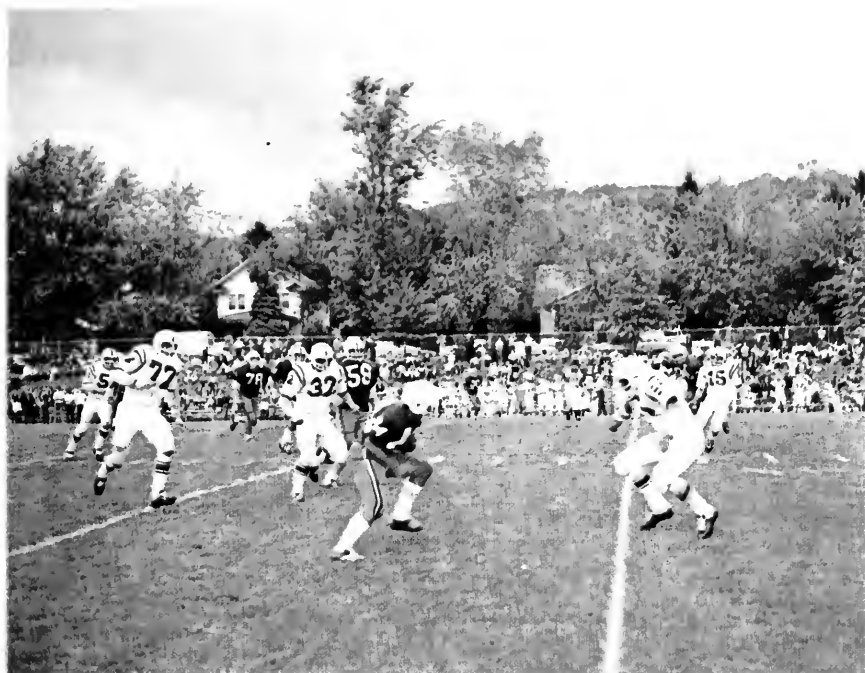
The College offers an attractive program of intercollegiate athletics and encourages wide participation by its students. It is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, and the Northern Division of the Middle Atlantic Conference. Lycoming annually meets some of the top-ranking small college teams in the East in athletic competition. Contests are scheduled in football, soccer, basketball, wrestling, swimming, tennis, golf, and track.

## INTRAMURAL ATHLETICS

An extensive and diversified program of intramural athletic competition affords an opportunity to participate in one or more sports of your choice.

Sports for men include touch football, basketball, volleyball, table tennis, badminton, tennis, softball, golf, wrestling, swimming, horseshoes, bowling, track and field.

Sports for women include competition in basketball, volleyball, bowling, badminton, table tennis, tennis, softball, swimming, field hockey, and archery. Field days are arranged with WAA groups of other colleges.



## STUDENT SERVICES

The Office of Student Services is concerned with various aspects of your development. The staff consists of the Dean of Student Services and four assistant deans, each of whom live on campus and are available for counseling and advising students with individual problems. In addition, each staff member is responsible for specific assignments such as: Religious Activities, Health Service, Organizational Life, Student Activities, the Student Union, Housing, Special Programs, Career Counseling and Placement.

### PERSONAL COUNSELING

The Dean of Student Services and his assistants provide advisement and counseling for students with emotional and adjustment problems. Each member of the staff is qualified to give assistance of a nontherapeutic type. A psychiatrist serves as a consultant to the staff and is available for evaluation of students who may be in need of professional services. Continuing therapy is available only through referral to public agencies and private clinicians in the community. When a student uses the services of a private clinician he is responsible for the payment of his own fees.

In addition to counseling on personal problems, vocational advisement and limited testing services are provided by the Student Services Office staff.

### HEALTH SERVICE

The College maintains an out-patient service, located in Rich Hall, which is staffed with registered nurses five days a week from 7:00 a.m. to 11:00 p.m. When the Health Service is closed, service is available at the Williamsport Hospital Emergency Room through the Emergency Care Physicians Association. In the case of illness, the College pays the emergency room charge and the physician's fee. Other charges are the responsibility of the student.

The College physician is available from 11:00 a.m. to 12:00 noon Monday through Friday at the Health Service and on call at other hours through the nurses. Normal medical treatment by the Health Service staff at the College Health Service is free of charge. However, special medications, x-rays, surgery, care of major accidents, immunizations, examinations for glasses, physician's visits other than in the Health Service, referrals for treatment by specialists, and special nursing service, etc., are not included in the free health service, except as provided by the ECPA at the hospital when the Health Service is closed. The student must pay for a visit to the doctor's private office.

### STUDY SKILLS PROGRAM

A series of professionally directed study-skills sessions are scheduled as the need arises. Groups of six to ten students are enrolled for a series of four one-hour sessions. These include sessions on reading skills, test-taking, note-taking, psychological blocks to studying, etc.

## READING IMPROVEMENT COURSE

A course designed to improve reading skills is offered at various times during the academic year. Skilled instructors teach how to improve reading speed and comprehension in short courses which span a three-week period. If you are deficient in reading skills, you may sign up for this course on a voluntary basis. The charge is \$36.00. Information is sent to students during the summer.

## CAREER DEVELOPMENT CENTER

Through the provision of information and counseling, the Career Development Center at Lycoming helps you to better understand and determine career objectives. With greater insight into your academic and career goals you may broaden the career opportunities open to you after graduation. You also can receive help securing part-time, summer, and post-graduate employment.

## RESIDENCE AND RESIDENCE HALLS

If you are a single student and do not reside at home you are required to live in the college residence halls and eat your meals in the college dining room. Requests for exceptions must be submitted in writing to the Associate Dean of Student Services-Housing.

If you do not have permission to live off-campus, you must sign a room agreement form, agreeing to observe the rules and regulations for resident students. An agreement form will be sent to you following your acceptance. Upperclassmen receive the agreements and rules and regulations each Spring.

Because of the inability of the College to predict enrollments by sex, it is necessary to keep assignments of halls as flexible as possible. No hall is specifically assigned to women or men on other than a year to year basis.

Resident students are responsible for the condition of their room and its furnishings. The College reserves the right to enter and inspect any of its property, or the property of a room resident for reasons of damage, health, safety, or to determine whether violation of its rules or the law are taking place or have occurred. Charges will be assessed for damages to rooms, doors, furniture, and commonly used areas.

Resident students are expected to vacate their rooms during the vacation periods when the halls are closed and not later than twenty-four hours following their last examinations, except for graduating seniors.

Regulations regarding quiet hours for study may be established by the appropriate residence hall councils and are published in the *Residence Halls Handbook* and on the bulletin boards in the halls.

Room visitation by members of the opposite sex is permitted in the halls only under conditions which are established by the College in cooperation with the various residence hall governing groups.







## STANDARDS OF CONDUCT

The College expects all of its students to accept the responsibility required of citizens in a free democratic society. The rules and regulations of the College are designed to protect the rights of every member of the community against encroachment by individuals. The limitations which are imposed upon the activities of individuals are established for the common good of the entire college community.

Students who are unable to demonstrate that they can accept this responsibility or are antagonistic to the spirit and general purpose of the College, or fail to abide by the regulations established by the College may be dismissed or requested to leave the College at any time. Further, at the end of any term or semester the College may deny a student the privilege of attending any subsequent term or semester when the administration deems this to be in the best interests of the College. In addition to the regulations published here, specific rules are furnished each student in the *Guidepost*.

The consumption or possession of alcoholic beverages on campus or at any official college function is prohibited. Detailed information regarding the laws of the Commonwealth of Pennsylvania are published in the *Guidepost*.

Lycoming does not condone the illegal use of drugs by its students. A detailed statement of the policy on drugs is published in the *Guidepost*.

Cheating, lying, and stealing are totally inconsistent with Lycoming standards. Although the acceptance and observance of the standards of behavior expected by the College is an individual responsibility it is a group responsibility as well. It is incumbent on all Lycoming students that they attempt to influence their peers to conduct themselves honorably for the collective good.

It is assumed that a willingness to accept these restrictions is implicit in the acceptance of membership in the Lycoming College community. When you are admitted to Lycoming you will receive a copy of the *Guidepost* and a copy of the *Residence Halls Handbook* if you will live in a College residence.

Both documents are important statements of official College policy, rules, and regulations which are part of the contractual agreement which you enter into when you register as a student at Lycoming.



## RELIGIOUS LIFE

Lycoming College provides you with many opportunities to mature in your faith through voluntary participation in the religious life of the campus.

Faculty and students express their religious convictions through membership and participation in nearly thirty Protestant denominations as well as the Roman Catholic and Hebrew faiths. Significant opportunities are offered to every student for the voluntary expression of his religious faith.

Through the office of the Director of Religious Activities, a varied religious life program is maintained as needs arise. The Campus Church conducts worship services each Sunday and at other times such as Holy Week. The services of worship are planned and conducted by students and include the use of outside speakers as well as our own faculty and students. The worship committee is appointed by the Campus Church Council; the governing body is elected by the Campus Church. The mission of the Campus Church is activated by the Campus Church Council through activities such as retreats, service projects, and study groups.

The Director of Religious Activities also provides counseling service each afternoon in his office in Clarke Chapel.

A part-time Roman Catholic chaplain assists the activities of the Newman Club and maintains office hours in Clarke Chapel for counseling purposes. Mass is celebrated on campus each Sunday.

Interfaith activities are carried out through special committees appointed by the Director of Religious Activities in consultation with the Roman Catholic chaplain and other interested persons.







## THIS IS LYCOMING

Lycoming is a coeducational liberal arts college with a student body of 1,500, approximately 900 men and 600 women. A United Methodist related institution, Lycoming is open to students regardless of their religious, racial, or national backgrounds.

At Lycoming it is believed that a liberal arts education is the best hope for an enlightened citizenry and that vocational and professional specialization must be built on a broad acquaintance with the various disciplines. Programs are arranged within a liberal arts framework so that all students study the humanities, sciences, and social sciences.

Beyond the level of general education, the College stresses the pursuit of a major. This presses you to achieve competency in a more limited area and encourages greater depth and sense of academic achievement. The major relates to increased understanding of yourself and your world; it leads both to graduate school and to vocation. Majors are not confined to single departments of the College; increasingly they are interdepartmental in nature, thus permitting the student a wider range of experience in related fields.

## LOCATION

Lycoming College, in scenic North Central Pennsylvania ninety miles north of Harrisburg, is set upon a slight prominence near downtown Williamsport overlooking the beautiful West Branch Valley of the Susquehanna River. Greater Williamsport, with a population of 85,000, is within 200 miles of Washington, Baltimore, Philadelphia, New York, Syracuse, Rochester, Buffalo, and Pittsburgh. It is easily accessible by bus, airline, and automobile. Interstate 80 passes fifteen miles south of Williamsport; U.S. Routes 15 and 220 come through the city.

## CAMPUS LIFE

A full program of cultural, professional, athletic, and social activities is an integral part of college life at Lycoming. You can find outlets for your talents, interests, and abilities among the numerous student organizations—fraternities, departmental clubs and honorary societies, student government, publications, and a comprehensive varsity and intramural sports program—each abounding in opportunities for student participation. Student Council, The Campus Church, Student Union Board, and other campus organizations bring in a variety of talent and speakers.





## LYCOMING CAMPUS

### RESIDENTIAL

1. *North Hall* (1965) - 146 students in two-room suites with bath.
4. *East Hall* (1962) - Houses chapters of national fraternities and other students. The fraternity units, distinct and self-contained, provide dormitory facilities, lounge, and a chapter room for each group. All students share a large social area on the ground floor.
5. *Forrest Hall* (1965) - 92 students in two-room suites with bath. Honors Dr. and Mrs. Fletcher Bliss Forrest and Anna Forrest Burfiendt '30, the parents and sister of Katherine Forrest Mathers '28 whose generosity established the memorial.
6. *Crever Hall* (1962) - 126 students in two-room suits with bath. Honors the College's founder and first financial agent, Rev. Benjamin H. Crever, who helped persuade the Baltimore Conference to purchase the institution from the Williamsport Town Council in 1848.
8. *Wesley Hall* (1956) - 144 students. Honors the founder of Methodism.
9. *Rich Hall* (1948) - 126 students in two-room suites with bath. Honors the Rich family of Woolrich, Pennsylvania. Houses the college health service and the Sara J. Walter non-residents lounge.
11. *Asbury Hall* (1962) - 154 students. Honors Bishop Francis Asbury, the father of the United Methodist Church in America, who made the circuit through the upper "Susquehanna District" in 1812, the year the Williamsport Academy (now Lycoming) opened its doors.
18. *Skeath Hall* (1965) - 184 students. Honors the late J. Milton Skeath, professor of psychology and four-time dean of the institution from 1921 to 1967.

### ACADEMIC

The Academic Center (1968)

12. *Laboratories and Arena Theatre* - Language, business, mathematics, and physics laboratories; Detwiler Planetarium; 204 seat thrust-stage arena theatre; 90 seat Alumni Lecture Hall.
13. *Faculty Office Building* - 69 faculty offices, seminar rooms, 735 seat lecture hall.
14. *Wendle Hall* - Spacious Pennington Lounge is an informal meeting place for students and faculty. Psychology laboratories, 20 classrooms.
15. *Library* - Can accommodate 700 students in a variety of study and reading situations, has a capacity of 250,000 volumes, computer center, audio-visual center.
2. *Art Center* (1965) - Studios and art gallery.
3. *Fine Arts Building* (1940) - Music studios and individual practice rooms.
19. *Eveland Hall* (1912) - Sculpture and art studios.
21. *Science Building* (1957) - Chemistry and biology lecture rooms, laboratories, offices.

### CHAPELS

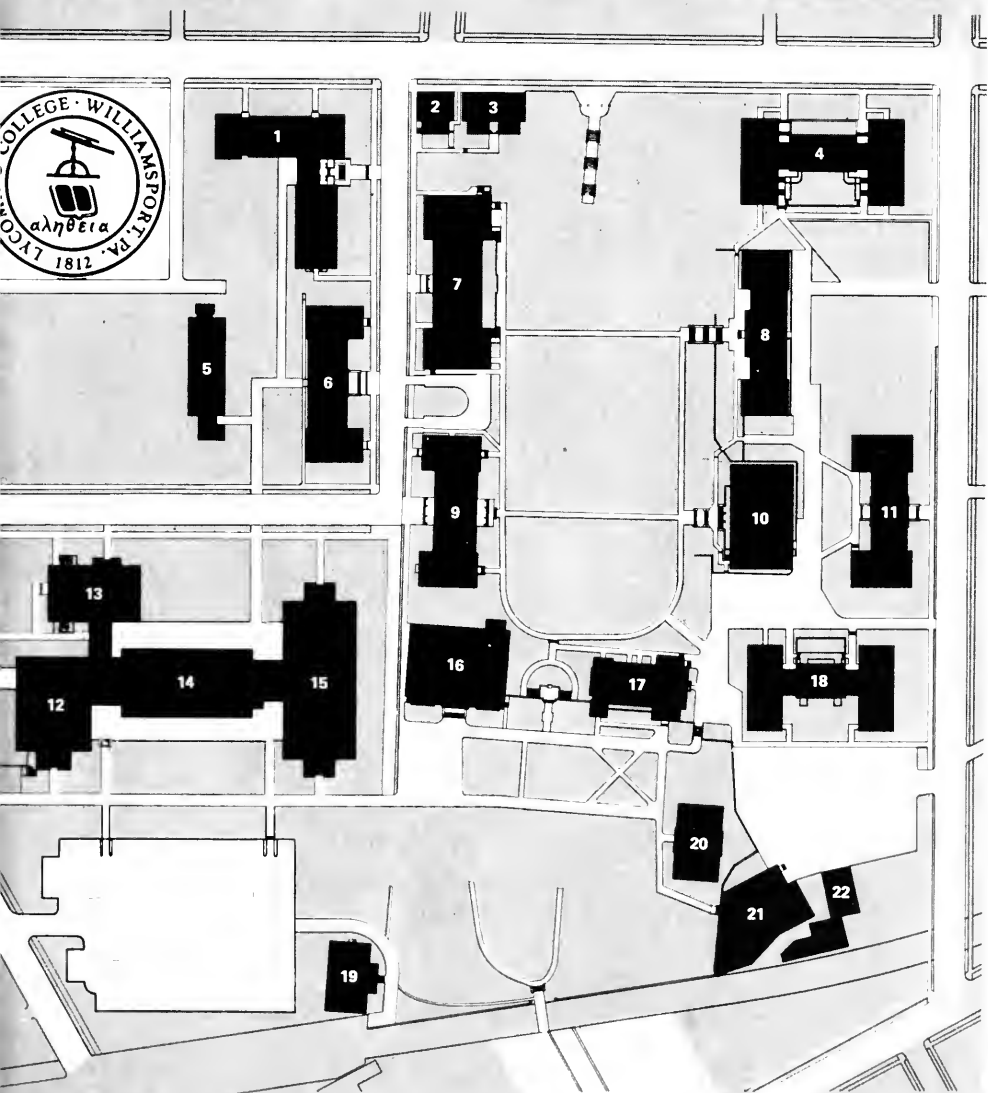
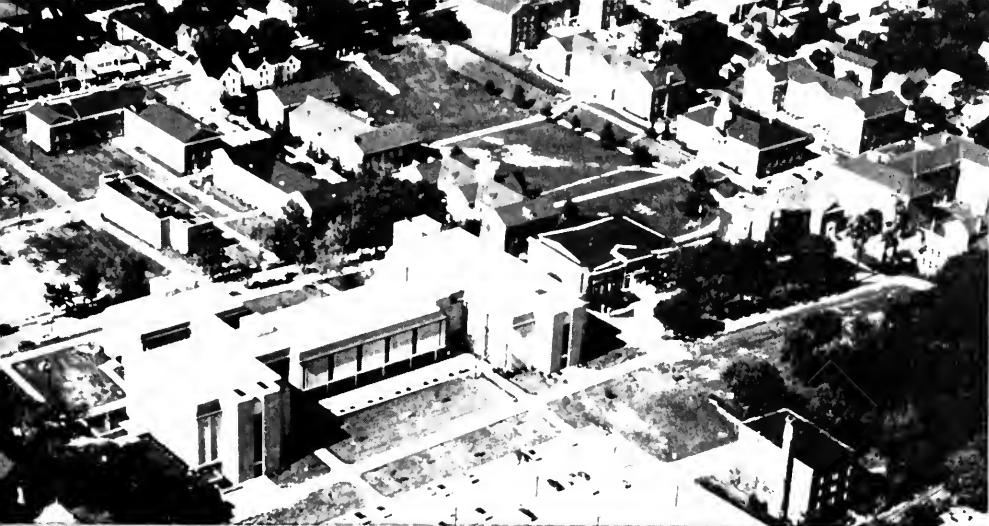
17. *Clarke Chapel* (1939) - Worship services and other events in auditorium, classrooms and faculty offices on ground floor.
10. *Conner Memorial Chapel* - On the ground floor of Long Hall. Honors Benjamin C. Conner president of Williamsport Dickinson Seminary 1913-1921.

### ADMINISTRATION

10. *John W. Long Hall* (1951) - College administration offices: President, College Deans, Treasurer, Registrar, Admissions, Alumni Affairs, Public Relations, Career Development Center, Publications, Development, and Financial Aid. Reception area central communications, duplicating and bulk mail services, Conner Memorial Chapel.

### RECREATION

7. *Wertz Student Center* (1959) - Dining room, Burchfield Lounge, recreation area, game room, music room, book store, post office, and student organization offices. Honors Bishop D. Frederick Wertz, president of Lycoming from 1955 until 1968.
16. *Gymnasium* (1923) - Basketball and other courts, swimming pool, bowling alleys, physical education offices.



## **SPECIAL OPPORTUNITIES**

The changing nature of American education finds greater emphasis than ever before upon the development of significant opportunities for self-fulfillment among students. Pertinent educational goals demand that you shall be accorded an opportunity to pursue a program that offers you the best chance to realize your intellectual potential. It is for this reason, that Lycoming has developed a curriculum that allows a maximum flexibility in course selection, especially among those courses that support the major as well as those that effectively meet the requirements of the College's objectives in liberal education. But wide variety in course selection does not always allow as completely individualistic a program as one might wish. Therefore, a variety of special opportunities is provided.

### **LYCOMING COLLEGE SCHOLAR PROGRAM**

The Lycoming Scholar Program offers highly motivated students an opportunity to develop their full potential through a flexible and demanding academic program. Persons with the following qualities would most likely benefit from this unique program:







## *SPECIAL OPPORTUNITIES/39*

High intellectual ability initially indicated by a class standing , normally in the upper fifteen percent and combined SAT scores of approximately 1150 or higher;

Intellectual curiosity, motivation, imagination, creativity, and a desire for excellence;

Sufficient independence of mind to plan and execute a unique personal academic program which best uses the resources of the College;

Commitment to the value of intellectual dialogue.

### *SCHOLAR OPPORTUNITIES*

The following opportunities are designed to be helpful to Lycoming Scholars in achieving the stated objective of the program.

The Scholar Council will relax the established distribution requirements while maintaining the breadth of a liberal arts education. The program for the individual Scholar is to be tailored by the Scholar and his academic consultant based upon an assessment of the student's previous attainments and his needs. This is subject to approval by the Lycoming Scholar Council.

Scholars may take a fifth course in any semester, and, unlike other students, Scholars may take an unlimited number of Studies and Honors courses. The present fee to Scholars for the fifth course is \$50.00.

Lycoming Scholars—either singly or in groups—are encouraged to petition the Council, in writing, for funds to undertake special educational projects involving extra expenses, such as taking trips or bringing in special speakers. Students applying for such funds are expected to make the results of their investigations available to the Scholar community, and, if possible, to the college at large.

Due to the composition of the Scholar Council, Scholars have a greater voice in determining the nature of their education than is possible in the college as a whole.

Evidence of participation in the Lycoming Scholar Program will be noted on the Scholar's transcript and diploma. A brief description of the program will be a part of the transcript.

At the request of the Scholar, the Council will endorse, for graduate school and other post-baccalaureate endeavors, those Scholars who have met the objective of the Program.

### *ADMISSION TO THE PROGRAM*

Scholars may be chosen by the Council while in their last year of secondary education, before actual matriculation at Lycoming. Their

potential for meeting the objective of the Program will be measured by a variety of means. Among them are interviews with Scholars and faculty members, and written responses to essay questions.

Scholars also may be chosen from the current Lycoming student body after their first year of study. Requirements include: (a) a letter of application, (b) letters of recommendation from two faculty members who are not on the Council, plus optional letters from present Scholars, and (c) an interview with members of the Council. Important factors in granting membership are the student's intellectual motivation, independence, desire to participate, and academic progress to date which is normally indicated by an average of 3.25 for two consecutive semesters. February 1st is designated as the deadline for application.

### *SCHOLAR RESPONSIBILITIES*

During their first year in the Program, all Scholars are on a probationary status. They are required to participate in a First-Year Seminar. Following successful completion of their probationary period, scholars will be formally admitted to the Program.

Any Scholar may be asked by the Council to leave the Program if he or she is judged not to be making satisfactory progress toward meeting its objective. If the academic average of the Scholar drops below a 3.00, the Council will look into the matter, but lower grades in themselves need not result in dismissal from the Program; of far more interest is the overall quality of the student's work.

During their last year at Lycoming, Scholars are required to participate in a Senior Seminar. In these Seminars each student will report on a Studies or Honors project taken during the Junior or Senior year.

All Scholars will have an academic consultant from the faculty to assist them in utilizing the potentialities of the Program. Together with the consultant, the Scholar must submit a brief plan of study to the Council at each registration period.

Scholars are expected to create academic programs which emphasize depth-of-study in a major area combined with a breadth of inquiry into other areas. Scholars also are expected to participate in the activities of the Program. Achievement of the Scholar Program objective depends upon the continual refinement of a program through faculty-student interaction and dialogue on policies, procedures, and activities. To this end, the Scholar Council, which is charged with administering the program, is composed of four students elected by their peers, four faculty members, and the Dean of the College, all with equal vote.

By presenting this highly flexible curriculum, Lycoming College opens the door to students who are motivated to remain intellectually creative. If you qualify for this special program and wish to be considered, Lycoming invites your inquiry.

## SPECIAL PROGRAMS

### MAY TERM

Each year a unique *May Term* is designed to offer a challenging array of special courses. Some of the four-week courses offer study and projects on campus, others involve nearby, distant, or foreign travel, and several encompass interdisciplinary credit. Many are non-traditional in content.

In its second year as a unique opportunity at Lycoming, *May Term* 1973 again provided students with a challenging array of forty-two specially designed courses for the four-week term. As in the very successful first *May Term* in 1972, many non-traditional courses had been designed and had such diverse topics as Dietrich Bonhoeffer, thought transference, astronomy, philosophy of law, and Raku.

Newly designed courses had such varied titles as "The Character of Physical Law", "Fisheries Management", "Creative Advertising", "The Cosmic Theatre", "Futurism", "Issues in Contemporary Feminism", "Human Sexuality", "Writer's Seminar", "Strategy and Politics in the Twentieth Century", and "Human Sexual Behavior".

Back by popular demand from 1972 *May Term* were such courses as "Accounting Opinions of the APB-AICPA", "Introduction to Photography", "Managing the Small Business", "Field Ornithology", "Indian Archeology", "History of Utopias in America", "Urban Problems", and "Speleology".

A number of *May Term* courses were conducted off-campus both in the United States and abroad. "London In May" explored the arts emphasizing attendance at plays, concerts, operas, and ballets plus meetings with performers, conductors, directors, actors, and teachers and tours of galleries, museums, and other points of interest. The second "Cultural Tour of the U.S.S.R." again enabled students to experience Russian culture in visits to Moscow, Leningrad, Novgorod, Kiev, the Crimea and Yerevan, capital of Armenian, S.R. The new "Cultural Tour of Germany" provided the same type of total immersion experience to enable students to improve their language skills and better understand the people, history, and culture of Germany.

The 1973 *May Term* "Introduction to Marine Biology and Biological Oceanography" course was based at the Bermuda Biological Station for Research, St. Georges. The Virgin Islands was the site of a course on literature which uses the sea and tropical islands as its setting and seems to have certain predominate themes.

The tri-cultural community of North central New Mexico was home again for the "Field Experience in Sociology-Anthropology" group as they combined cultural anthropological and sociological field methods to learn how to analyze a community in depth. "The Washington Minimester: A Course in Practical Politics" analyzed the workings of our national government first-hand by meeting people working on all levels within and tangential to the government.

Several courses of particular interest to future teachers or those working for certification were available in the *May Term*. The education department offered "The Psychology and Teaching of Reading in the Elementary Schools", "Teaching Reading Skills in Secondary Schools", and "Science, Health, Safety, and Physical Education". "Elementary Geometry", designed primarily for elementary teachers, and "Mathematics for the Elementary Teacher" were offered by the math department, while the psychology department had "Behavior Modification Techniques with Children" and "Educational Psychology".

*May Term* classes, which started on May 7th and continued daily until June 1st, met at 9:00 a.m. or 1:00 p.m. unless scheduled to meet on some "arranged" basis. Costs were: Tuition for one (unit) course - \$150, Room - \$50, Board - \$75.

## INDEPENDENT STUDY

Each department granting a major provides opportunity to students to work independently. Upon consent of the department head and the instructor, you may register for courses in Independent Study. Normally, the opportunity for such study is provided for the better qualified major student who has successfully completed the courses making up the core of his major program. Except under unusual circumstances, registration for the Studies course is limited to one unit course during each semester. If you wish to elect more than one unit during a semester or three or more unit courses in Studies in your total college program, approval of the Academic Standing Committee must be secured. If you are privileged to do Independent Study you register for courses 80-89, Studies. An appropriate title is entered in your record.

## SEMINAR STUDY

Individual departments may from time to time find it possible to organize small classes or seminars for exceptional students interested in subjects or topics not usually a part of departmental course offerings. Establishment of the seminar and admission of students depends upon the approval of the department involved. Occasionally, Visiting Professors, Lecturers, or Specialists in Residence will offer such seminar studies. Students who are privileged to elect Seminar Study in any department register for courses numbered 70-79—Studies, with an appropriate title to be entered upon the student's permanent record. Enrollment in seminar courses is normally limited to ten students.

## DEPARTMENTAL HONORS

If you desire to enter an Honors program and secure departmental approval to apply, a faculty committee shall be convened whose initial responsibility shall be to pass upon your eligibility to enter the program. The committee responsibility shall also include the direction of the study, and final evaluation of its worth. Usually the Honors program involves independent study in two consecutive unit courses. Students who are privileged to elect Honors register for courses numbered 90-99.

Honors study is expected to result in the completion of a thesis to be defended in a final oral examination. Acceptable theses shall be deposited in the college library. Successful completion of the Honors program will cause the designation of honors in the department to be placed upon the permanent record. In the event that the study is not completed successfully, the student shall be re-registered in Independent Studies and given a final grade for the course.

## WASHINGTON NATIONAL SEMESTER

Upon recommendation of the faculty of the Department of Political Science, you may be permitted to attend The American University, Washington, D.C., for a period of one full semester. The Washington Semester program is intended to provide a first-hand acquaintance with various aspects of the nation's capital, as well as an academic experience equivalent to four normal unit courses. This program is open to selected students who have special interests in political science, law, and American government. Ordinarily, only junior students are eligible.

## INTERNSHIP PROGRAM

In order to expand the learning opportunities for Lycoming students and to encourage them to relate their on-campus academic experiences more directly to society in general and to their post-baccalaureate objectives in particular, the faculty has approved the concept of Student Internships. Departments will be encouraged to develop internships for their major students. Any junior or senior who has declared a major will be able to petition the major department for approval to enroll in an internship for a maximum of four unit courses of credit. An academic director at Lycoming and an agency supervisor at the place of internship will be assigned for each intern. Guidelines for program development, assignment of intern tasks, consultations, and academic requirements such as exams, papers, reports, grades, etc. are being established.

## INTERNATIONAL INTERCULTURAL STUDIES

### WASHINGTON INTERNATIONAL SEMESTER

Upon the recommendation of the faculty of the department of political science, you may attend The American University, Washington, D.C. for a period of one full semester. The Washington International Semester is intended to provide a unique academic experience in international affairs within the milieu of a major world capital.

### UNITED NATIONS SEMESTER

Upon recommendation of the faculty of the departments of history or political science, you may attend Drew University, Madison, New Jersey, for a period of one full semester. The United Nations Semester is intended to provide a first-hand acquaintance with the United Nations, New York City, as well as an academic experience equivalent to four normal unit courses. This program is open to selected students who have special interests in world history, international relations, law, and politics. Ordinarily, only junior students are eligible.

### LONDON SEMESTER

Upon recommendation of the faculty of the departments of history or political science, you may attend London University for a period of one semester. This program is operated by Drew University in conjunction with many other American colleges. It is intended to acquaint the student with the character of one of the principal sources of American law and politics as well as to provide an academic program equivalent to four normal courses. Ordinarily, only junior students are eligible.

### OVERSEAS STUDIES OPPORTUNITIES

Under auspices of approved universities or agencies, you have an opportunity to study in a foreign university. While overseas study is particularly attractive to students majoring in foreign languages, this opportunity is open to all students. Mastery of the foreign language is not required in all programs. A file of opportunities for overseas study is available from the reference librarian or the faculty coordinator of overseas study programs.

It should be noted that Lycoming College cannot assume responsibility for the health, safety, or welfare of any student while he or she is engaged in or enroute to or from any off-campus studies or activities which are not under the exclusive jurisdiction of this institution.



## **CAREER OPPORTUNITIES**

Students who attend a liberal arts institution find numerous career opportunities open to them upon graduation. Although students can seek career employment related to their academic major, the value of a liberal arts education is that students are not restricted to such employment. A liberal arts background gives you the flexibility to pursue various career avenues, as illustrated by the careers entered by a few of our typical graduates of last year. An English major secured employment as a housing counselor for the government; a psychology major, as a manager in a retailing business; a biology major, as a food and drug inspector; an accounting major, as a graduate student attending law school; a history major, as a branch manager in a banking firm; a political science major, as a county law enforcement agent; a business major, as a technical assistant in a television station; a theatre major, as a counselor for underprivileged children. In general, a liberal arts education provides a foundation for each student to pursue the type of career which focuses upon his abilities, interests, and aspirations.

Today's employers are seeking college graduates with broad academic backgrounds. The primary characteristics desired by employers are intelligence, communication skills, leadership ability, community involvement, and career identification. Employers believe such an individual will be better able to handle the various problems he will encounter in today's complex world.

Lycoming College is committed to assist each student to develop a realistic career plan. The Career Development Center is the primary service designed to help each student, beginning in his freshman year, to crystallize his future plans. Through career counseling, career workshops, career information, and similar vehicles, the Career Development Center strives to help each Lycoming student.



## CAREER FIELDS UNLIMITED

Your course of study at Lycoming will help you to gain greater insight into many aspects of your world and simultaneously lay a strong foundation for a career. Innumerable types of positions are open to liberal arts graduates. At Lycoming you have the additional opportunity to explore, from an elementary to an advanced level, various fields that may lead to a vocation or direct you toward professional or graduate schools. A wide variety of vocations may be entered directly upon graduation. These include positions in business, industry, government, and the professions, including teaching. A student interested in any of these areas is referred to his advisor, to the appropriate department, or to a special assigned advisor.

### ACCOUNTING

There are many reasons for continued rapid growth of the accounting profession in the foreseeable future. Lycoming offers a rigorous comprehensive program of undergraduate training in accounting leading to the bachelor of arts. The most important aspect of an accountant's service to clients and to the public cannot be defined as knowledge, nor even as experience, but must be described by more elusive terms: wisdom, perception, imagination, circumspection, judgement, integrity. A liberal arts education followed by training on-the-job offers you the best background for a successful career in accountancy. The academic standards are such as to require you to be proficient in math; have an above-average ability to communicate ideas verbally and in written form; show a potential ability to express and to interpret abstraction; and demonstrate a personality capable of developing qualities of business and community leadership. Interested? Contact the Accounting Department Chairman.

### BUSINESS

Lycoming offers course work in the field of business administration particularly designed for training prospective business leaders. Business is a highly diversified occupation; therefore the curriculum is not designed to be vocational or narrowly pre-professional. The purposes of the business administration curriculum are to train and equip your mind to recognize and solve complex problems facing business executives, to develop an appreciation for rigorous analysis, to practice the arts of verbal and written communication, and to expose the developing mind to as wide as possible a range of course work represented by the traditional liberal arts curriculum, to the end that you become truly well educated. Considerable flexibility is permissible within the curriculum and you are encouraged to pursue course work most rewarding to you.

## TEACHER EDUCATION

Lycoming prepares teachers for elementary and secondary schools. The programs are approved by the Pennsylvania Department of Education for the certification of elementary teachers and for secondary teachers in the following areas: Biology, Chemistry, Communication, English, French, General Science, German, Mathematics, Physics, Russian, Social Science, and Spanish. Pennsylvania certificates are recognized in many other states either through reciprocal agreements or by transcript evaluation.

The excellent facilities of the public schools in Williamsport and the surrounding areas are used by education students for observations, participation experiences, and practice teaching.

Lycoming feels that the best preparation for future teachers is based on the liberal arts. Therefore, all education students complete a liberal arts major in addition to the education requirements.

Normally, freshmen are not admitted to education courses. All applicants for admission to the Teacher Education Program must register with the Education Office no later than registration for the first semester of the sophomore year. The Committee on Teacher Education evaluates those accepted, at various junctures in their education program, using such guidelines as grade point average, potential, course requirements, and recommendations.

Application for practice teaching must be made before October 1 of the junior year. Admission to the professional semester is limited and selective. Final approval for student participation in the professional semester is granted by the Teacher Education Committee.



## RELIGIOUS EDUCATION

If you desire extensive study in biblical history and literature, the historical development of Christianity, and Christian doctrine, you may major in religion. If you plan to enter the vocation of religious education, you should, besides majoring in religion, elect five or six unit courses in psychology, education, and sociology. This program of study, completely within the liberal arts curriculum, will qualify you for work as an Educational Assistant, or after graduate study in a theological seminary, as a Director of Religious Education. You are invited to contact the Director of Religious Activities for further information on the opportunities, responsibilities, and requirements of these and other church vocations.

## MEDICAL TECHNOLOGY

The Medical Technology curriculum is organized around an academic background of basic science courses in addition to those liberal arts courses listed as requirements for the bachelor of arts degree. Preparation at Lycoming for a career in medical technology may be made in either of two ways: the attainment of the B.A. followed by a clinical internship at any accredited hospital, or by completion of the Lycoming Cooperative Program.

If you elect to follow the Cooperative Program in Medical Technology, you will normally spend three years at Lycoming. During this time you must satisfy the general college distribution and major requirements, and must successfully complete twenty-four unit courses, including four in chemistry, six in biology, and two in mathematics. Three-year students usually major in biology, where they are eligible to follow a modified major of six unit courses which exempts them from two biology core courses, Ecology (Biology 24) and either, but not both, Animal Physiology (Biology 23) or Cell Physiology (Biology 20). Also required as part of the Cooperative Program is the successful completion of a one-year internship at one of Lycoming's affiliated hospitals, currently Williamsport Hospital, Divine Providence Hospital, Robert Packer Hospital, Lancaster General Hospital, and Abington Hospital. Three-year students will be given Lycoming credit for each of eight unit courses in biology and chemistry taken during the clinical internship and will graduate from Lycoming at the first commencement following successful completion of the internship. Lycoming does not consider the Registry examination a requirement for graduation.

If you decide to graduate from Lycoming before entering a hospital program, you may major in any department of your choice, and at the same time satisfy ASCP and hospital admission requirements. Once graduated from Lycoming, you may apply for admission to a clinical program at any hospital of your choice.

If you are interested in a medical technology career, you should contact members of the Medical Technology Coordinating Committee or chairman of the biology department before finalizing course decisions.

## COOPERATIVE PROGRAM IN ENGINEERING

Consistent with increased attention being given nationally to engineering education, Lycoming offers a cooperative curriculum combining the manifold advantages of a small liberal arts college with the training to be secured at an engineering school. By arrangement with Bucknell University and The Pennsylvania State University, the colleges offer a five-year program in which the first three years are spent at Lycoming and the final two at the engineering school. Upon completion of the first year at the engineering school, your record will be sent to Lycoming. If the work is satisfactory, Lycoming will award the bachelor of arts degree. Upon the completion of the five-year program of studies, a bachelor of science in engineering is awarded by the engineering school. Combined programs offer an opportunity for completion of studies in the following areas: Bucknell University: chemical, civil, electrical, or mechanical engineering; The Pennsylvania State University: aeronautical, civil, electrical, industrial, mechanical, or sanitary engineering.

Prescribed work at Lycoming includes, in addition to degree requirements outlined above, courses in chemistry, mathematics, and physics. Because the demands of the engineering curricula may differ somewhat, a program of studies at Lycoming will be designed for you when your plans as to type of engineering program preferred have been finally fixed. The chairman of the physics department will aid you in planning your program.

## COOPERATIVE PROGRAM IN DRAMA

The American Academy of Dramatic Arts and Lycoming each recognize appropriate courses given by the other institution. Normally, in the case of the transfer student who is a graduate of the American Academy of Dramatic Arts and recommended by them and who has completed two years successful study at an accredited college or university, the residency requirement is two summers with The Arena Theatre and two consecutive semesters in an academic year. Summer session course work may be required. Each case is subject to review. The affiliation with the Academy permits a graduating Lycoming senior to be eligible for advanced standing at the Academy upon recommendation of the Lycoming College theatre department chairman and acceptance by the Academy. For information contact the theatre department chairman.



## COOPERATIVE PROGRAM IN FORESTRY

Professional and scientific programs of study in forestry for men and women are offered in cooperation with the School of Forestry, Duke University. You will spend three years in residence at Lycoming and an additional five semesters at Duke. Upon satisfactory completion of two semesters at Duke you will have earned the A.B. degree from Lycoming, and upon completing the remainder of the program will be awarded either the M.F. or M.S. degree from Duke, depending upon the nature of the program.

You should indicate to the Admissions Office that you wish to enroll in the Forestry program. At the end of the first term of the third year, Lycoming recommends qualified students for admission to the Duke School of Forestry. No application need be made to the School of Forestry before then.

Major fields of forestry at Duke are:

### FOREST RESOURCE ADMINISTRATION

Forest Resource Management  
Forestry Business Management  
Forest Protection  
Forest Resource Economics and Policy  
Biometry & Statistics  
Systems Analysis

### FOREST SCIENCE

Forest Ecology  
Forest Entomology  
Forest Pathology  
Tree Physiology  
Tree Biochemistry  
Dendrology & Wood Anatomy  
Forest Hydrology  
Forest Meteorology  
Forest Soils

If you are interested in *Forest Resource Administration* you are advised to elect a concentration in biology, business management, mathematics, economics, computer science, statistics, or sociology. If you plan a career in *Forest Science*, you should strengthen your backgrounds in biology, chemistry, mathematics, and physics. Typical programs in fields offered at Duke are available upon request from the Dean of the School of Forestry, Duke University, Durham, North Carolina 27706. More information is available from the chairman of the biology department.

## PREPARATION FOR GRADUATE STUDY

Many careers today require advanced study beyond the bachelor of arts degree. In general, preparation for graduate work in one of the academic disciplines should include a broad base of liberal studies, a strong undergraduate major, and adequate supporting work in closely related fields. You can design an individual major to meet the needs of some of the newer graduate level interdisciplinary programs. Often graduate departments ask that a prospective student's competence be measured by the national Graduate Record Examinations. They usually require a reading knowledge of one or two foreign languages. You should consult departmental advisors early in your college years with respect to planning for entrance to graduate school.

## PREPARATION FOR HEALTH PROFESSIONS

The curriculum for the pre-Health Professions (allopathic medicine, dental medicine, optometric medicine, osteopathic medicine, podiatric medicine, and veterinary medicine) are all organized around a solid foundation in biology, chemistry, English, mathematics, and physics. A wide range of subject matter from the humanities, social sciences, and fine arts should be included in the program. At least three years of undergraduate study is recommended before entry into the professional school; the normal procedure is to complete the bachelor of arts degree.

You should indicate to the Admissions Office, when completing the application to Lycoming College, that you wish to enroll in the pre-Health Professions (various fields of medicine) program. The Health Professions Advisory Committee will advise you concerning preparation for and application to a health professional school.

## PREPARATION FOR THEOLOGICAL SEMINARY

If you are a young man or woman interested in the Christian ministry or related vocations, you can find the pre-ministerial curriculum at Lycoming an exciting and challenging opportunity. Basic courses specified by the American Association of Theological Schools are virtually identical with the program of courses required for a bachelor of arts degree. Such courses offer a wide range of subject matter presenting many opportunities for you as a pre-ministerial student to acquaint yourself with the broad scope of human experience. Preparation for seminary includes earning a bachelor of arts degree with a major in one of a variety of fields such as religion, English, history, and philosophy. So that you may have a curriculum designed to fit your individual needs, the offerings in the junior and senior year are largely elective. The choice of electives will depend upon the requirements of the theological school which you expect to attend. If you are interested, contact the Director of Religious Activities.

## PREPARATION FOR LAW SCHOOL

Many colleges of law require a Bachelor of Arts degree for admission. The four-year degree program in pre-law at Lycoming College provides a background for the prospective student of law. Requirements include courses in political science and history, but also specified is a wide range of subject matter designed to acquaint you with the vast scope of human experience.

You may expect to major in economics, history, political science, or related fields as you prepare for matriculation in law school. Individual programs are tailored to fit your needs as well as to meet the specific requirements of the law school to which you apply for admission. Interested students should contact the political science department chairman.





# ACADEMIC PROGRAM

Lycoming College is a liberal arts institution granting the bachelor of arts degree. A degree candidate must fulfill certain minimal course requirements in breadth of learning—the distribution requirements—and in depth of learning in a chosen subject matter field—the major.

## GRADUATION REQUIREMENTS

Every degree candidate must complete the following degree requirements:

1. Pass a minimum of thirty-two unit courses (128 hours) with an average of 2.0 or better within the limit of thirty-eight unit courses (152 hours) taken. In case of withdrawals, the attempted course will be considered one of the total number of courses permitted, except in the case of withdrawals for medical or psychological reasons.
2. Complete a major consisting of at least eight (8) unit courses.
3. Achieve an average of 2.0 or better for all courses counted in the major.
4. Complete the Distribution Requirements.
5. Complete the final eight courses offered for the degree at Lycoming.
6. Earn one year of credit in Physical Education.\*
7. Satisfy all financial obligations incurred at the College.
8. Complete the above seven requirements within seven years of continuous enrollment following the date of matriculation. All exemptions or waivers of specific requirements are reviewed by the Committee on Academic Standing.

\*Exemption, for medical reasons, from participation in physical activity associated with physical education may be granted only by the College Physician who considers your medical history, your physician's report, and his own physical examination of you.

## COURSE WORK

Instruction at Lycoming College is organized, with few exceptions, on a departmental basis. Nearly all courses are unit courses, meaning that each course taken by you is considered to carry the same academic value as any other course. For transfer purposes each course is considered to be equivalent to four semester hours of academic work. This does not mean that all courses will meet for four one-hour lectures each week, although many will do so. Rather, each course meets on a schedule set by the department and the instructor involved. Such meetings may be on a lecture, discussion, laboratory, or tutorial basis. Varying amounts of additional study, reading, writing, and research will be required for each course. Most students elect four unit courses each semester. Students may elect to enroll in five (5) courses during any semester provided they were admitted to the Dean's List during the preceding semester while carrying at least four unit courses. Exceptions may be made by the Committee on Academic Standing. You can accelerate by taking courses in the May Term and summer sessions.

## MAJORS

You are required to complete a series of courses in a field of concentration. This is accomplished by completing one of the following type of majors:

*Departmental Major, Established Interdisciplinary Major, or Individual Interdisciplinary Major.*

### DEPARTMENTAL MAJORS

Departmental majors, as described beginning on page 67, are available in:

Accounting	History
Art	Mathematics
Biology	Music
Business Administration	Philosophy
Chemistry	Physics
Economics	Political Science
English	Psychology
Foreign Languages	Religion
French	Russian
German	Spanish
	Sociology and Anthropology
	Theatre

You may complete two majors; each will be recorded on your record.

### ESTABLISHED INTERDISCIPLINARY MAJOR (EIM)

An Established Interdisciplinary Major (EIM) can be elected instead of a departmental major. Two or more departments work together to establish an EIM which must be approved by the Committee on Special Studies. The following EIM's, as described beginning on page 63, are available:

Accounting-Mathematics	Soviet Area Studies
Near East Culture and Archeology	Literature

### INDIVIDUAL INTERDISCIPLINARY MAJOR (IIM)

You may take the initiative and design a unique Individual Interdisciplinary Major (IIM) in consultation with your faculty advisor. You may apply for approval of an IIM to the Committee on Special Studies via the Registrar, who will provide a copy of the *Guidelines For Interdisciplinary Majors* and other necessary forms.

Individual Interdisciplinary Majors usually involve two or more departments which each already offer a major. An IIM is normally comprised of a minimum of ten courses beyond those satisfying distribution requirements. If the IIM involves departments not included in meeting the distribution requirements, then the ten courses may include elementary courses usually used to satisfy distribution requirements. However, you are expected to take at least six courses at the advanced (junior or senior) level as determined in consultation with your advisors. Changes in this set of courses comprising the major, which may be desired or needed as you progress, must be authorized by the Committee on Special Studies.



As an IIM student, you are advised by a committee composed of one professor from each department involved. You choose the chairman who functions as the advisor of record, maintains your records, etc. The Committee on Special Studies must certify the successful completion of the IIM for graduation.

Your transcript will show:

*Interdisciplinary Major in* \_\_\_\_\_ *(Departments), for example:*  
*Interdisciplinary Major in Urban Studies* (History, Psychology, Sociology).

## POLICY ON ADMISSION TO MAJOR

If you desire an established interdisciplinary major (EIM) or departmental major (DM), you must declare your elected major, in the Office of the Registrar, no later than the beginning of your junior year.

If you desire an individual interdisciplinary major (IIM), you must apply to and secure the approval of the Committee on Special Studies in conformity with established policy.

If the Committee on Special Studies, the Coordinating Committee for an EIM, or a department feels that legitimate reasons exist which may warrant removal from major status, that committee or department must submit these reasons, in writing, to the Dean of the College who, after consultation with you, will decide whether or not you are to be removed from major status. The Committee on Special Studies, the Coordinating Committee for an EIM, the department, or you may appeal the decision of the Dean of the College to the Committee on Academic Standing which will either sustain or modify the decision of the Dean of the College. As in all cases of student appeals, the final appeal is to the College president.

If you have not declared a major by the beginning of your junior year, you are subject to dismissal from the College.

## ACADEMIC ADVISEMENT

An advantage of a small college is the rich experience gained by the close association of students and faculty. The counseling program at Lycoming enables you to discuss various academic problems with your instructors, and the staffs of the Dean of the College and the Dean of Student Services.

As an entering Freshman, you are assigned to a faculty adviser who meets with you as needed during the year. You will find your adviser willing to guide and assist in the many problems that confront a new college student. If, as an upperclass student, you do not feel the need for a formally assigned adviser, you may assume the responsibility for meeting your degree requirements.

## THE DISTRIBUTION REQUIREMENTS

One of the reasons a student chooses to come to Lycoming is a desire to obtain a breadth of knowledge in many areas, a liberal arts education. A student who deliberately elects to attend a liberal arts college is interested in more than training in a narrow major; he wants knowledge in an area of special interest, his major, amplified by exploration into kindred and “unrelated” fields.

Lycoming College, being a liberal arts institution, insists that a major program of study be supported and challenged by the influences of a diversity of subjects. The major must not become narrow in its vision and sterile in its ability to help you function effectively in a world where nothing is neatly isolated and compartmentalized. The College believes that the essence of liberal education is its potential for exposing you to the multitude of historical, traditional, and contemporary avenues of thought and action which are brought to light in different ways through the study of various disciplines.

By taking different kinds of subjects, you can discover numerous ways of seeing things. You can gain the advantage of learning to view events and approach problems and questions from various points of view. You can discover that the interpretation of events and the relevance of solutions and answers will vary greatly for different individuals and groups.

To have you achieve at least a minimal insight into this multiplicity of perspective, thought, and reaction, Lycoming requires that you select some of your courses from six groups of courses as outlined below. The aim is not the garnering of specific, prescribed information, but rather, the development of a broadly based perspective of all aspects of life.

The distribution requirements in English, Mathematics, Fine Arts, Natural Science, and History and Social Science may be met by superior performance on the General Examinations of the College Level Examination Program. Further information may be obtained from the Office of the Registrar.

### ENGLISH

You are required to pass English I and one other English course. English I must be taken during the freshman year.

### FOREIGN LANGUAGE OR MATHEMATICS

You are required to meet a minimum basic requirement in *either* a foreign language or mathematics.

**Mathematics.** If you elect mathematics, you must complete four courses in mathematics. By passing a proficiency examination you may reduce this requirement to two courses other than Math I. These exams are offered during the Freshman Orientation.

*Foreign Language.* If you elect to take a foreign language, you may choose from among French, German, Greek, Hebrew, Russian, or Spanish. You are required to pass two courses on the intermediate or a higher course level. Placement at the appropriate course level will be determined by the faculty of the department of foreign languages. No student who has had two or more years of a given foreign language in high school shall be admitted to the elementary course in that same language for credit, except by written permission from the chairman of the department. French 28 will meet part of this requirement only upon consent of the department.

### *RELIGION OR PHILOSOPHY*

You are required to pass one year (two courses in the same subject) in either philosophy or religion.

*Philosophy.* You may take any two philosophy courses.

*Religion.* The distribution requirement may be satisfied by completing two religion courses, at least one of which must be 10, 13, or 14.

### *FINE ARTS*

You are required to pass one year (two courses) in *one* of the following:

*Art.* You may take any two art courses.

*Literature.* You may take any two literature courses selected from the offerings of the departments of English and Foreign Languages and Literatures.

*Music.* Any combination of music courses totaling the equivalent of two full-unit courses (academic full-unit courses—Music 1 through 46 and Music 70's; or applied fractional unit courses—Music 60 through 69) will satisfy this requirement. You can earn the equivalent of two full units in Music in one of the following ways:

1. Take two full-unit academic courses from those numbered Music 1 through 59 and Music 70's,
2. Take a total of two full units of applied music, from courses numbered Music 60 through 69, which are earned fractionally as follows:
  - A. 1/8 unit per semester for one half-hour of instruction per week in courses numbered 60 through 66.
  - B. 1/4 unit per semester for one hour of instruction per week in courses numbered 60 through 66.
  - C. 1/4 unit per semester for music 67, 68, or 69.
3. Take one full-unit academic course (Music 1 through 59 and Music 70's) plus the equivalent of one full-unit course earned fractionally in applied music courses 60 through 69 as explained in "2" above.

*Theatre.* Any two theatre courses 10 and above will satisfy this requirement.

### NATURAL SCIENCE

You are required to pass one year (any two courses) in *one* of the following: biology, chemistry, or physics.

### HISTORY AND SOCIAL SCIENCE

You are required to pass one year (two courses) in *one* of the following:

*Economics.* You may take any two courses.

*History.* You may take any two courses.

*Political Science.* You may take any two courses.

*Psychology.* You may take Psychology 10 plus one course usually chosen from among Psychology 15, 16, 30, 31, 32, or 38.

*Sociology and Anthropology.* You may take Sociology 10 plus another course.

**NOTE:** A course can be used to satisfy only one distribution requirement.

### GRADING SYSTEM

The College uses the traditional letter system of grading: A B C D F or Satisfactory/Unsatisfactory. Any student enrolled full-time at Lycoming College may elect to take up to a maximum of four courses on a Satisfactory/Unsatisfactory basis. Only one course may be taken on this basis during any semester. No course taken by a student on a S/U basis after the declaration of his major and approval by the department involved may be used to satisfy a requirement of that major, including courses required by the major department which are offered by other departments. Instructor-designated S/U courses are excepted from this limitation.

During the May Term, instructors, with the approval of the Dean of the College and the Director of Special Sessions, may designate courses to be taken on an S/U basis only. These courses will not count toward the four-



course limit. A course elected on an S/U basis which is subsequently withdrawn will not count toward the four-course limit.

Any student electing a course on an S/U basis may designate a minimum acceptable letter grade of 'A', 'B' or 'C'. If the letter grade actually earned by the student equals or exceeds the minimum acceptable letter grade designated by the student, then the letter grade actually earned in the course will be entered on the student's permanent record and will be used in computing the student's GPA. In this case the course will not count toward the four-course limit since it was not completed on an S/U basis. If the student fails to designate a minimum acceptable letter grade or if the letter grade actually earned is lower than the minimum acceptable letter grade designated by the student, then the Registrar will substitute an 'S' for any passing grade ('A', 'B', 'C' or 'D') and a 'U' for an 'F' grade.

The student shall declare by the end of the period during which courses may be added an intention to be graded on an S/U basis. At the same time, and except for instructor-designated S/U courses, the student will indicate a minimum acceptable letter grade, if he or she so chooses. The instructor will not be notified of these decisions, unless the student chooses to do so. A student electing the S/U option shall be expected to perform the same work in the course as those being graded on the regular basis.

You will receive full credit for a course passed with a Satisfactory grade. Neither the "S" nor the "U" count in computing the grade point average.

Incomplete grades may be given if you, for absolutely unavoidable reasons, have not been able to complete the work requisite to the course. Such circumstances usually stem from medical sources. An incomplete grade must be removed within six (6) weeks of the next regular semester.

#### MID-SEMESTER EVALUATIONS FOR FRESHMEN

Mid-Semester evaluations are reported for freshman students whose work is unsatisfactory. These reports are filed with the Registrar who then reports them to the students concerned and their faculty advisors. The evaluation report from the instructor may be one of two types: (a) submission of a letter grade of "D" or "F" (b) submission of a written evaluation for those freshmen who are performing below the satisfactory level.

#### ACADEMIC STANDING

All students must complete a minimum of sixteen (16) unit courses with an average of "C" or better to be advanced to the junior year. A student whose cumulative or semester average falls below "C" is considered to be in academic difficulty and his academic record will be reviewed by the Committee on Academic Standing. Such students may be placed on academic probation, suspended, or dismissed by the Committee on Academic Standing according to regulations established by the Faculty.



## ACADEMIC HONORS

The Dean's List is issued at the close of each semester in recognition of superior scholarship. Students are admitted to the Dean's List when they have completed at least three courses with other than S/U and have a minimum grade point average of 3.50 for the semester.

You may be awarded the bachelor of arts degree with honors when you have earned the following grades:

Bachelor of Arts, summa cum laude—a 3.90 grade point average.

Bachelor of Arts, magna cum laude—a 3.50 grade point average.

Bachelor of Arts, cum laude—a 3.25 grade point average.

High quality scholarship is also recognized by completion of a departmental honors program and by election of students to membership in Honor Societies.

## WITHDRAWING FROM COURSES

You may drop any course during the first two weeks of classes and no record of such enrollment shall be made on your permanent record card. You may also add any course during the first two weeks of classes, subject to the approval of the instructor. If you wish to drop a course after the second week of classes, you must secure a withdrawal card from the Office of the Registrar. You must present this card to the instructor of the course in question who will then assign one of the following grades:

W—Progress at the time of withdrawal cannot be determined.

WP—Progress at the time of withdrawal is satisfactory.

WF—Progress at the time of withdrawal is unsatisfactory.

This grade is then entered on your permanent record card. No withdrawal grade is counted in the computation of the grade point average, but the course from which you withdraw is counted as one of the thirty-eight (38) unit courses to which you are limited in completing your degree requirements at Lycoming.

## CLASS ATTENDANCE

The academic program at Lycoming is based upon the assumption that there is value in class attendance for all students. Individual instructors have the prerogative of establishing reasonable absence regulations in any course. You are responsible for learning and observing these regulations.



## ACADEMIC HONESTY

The integrity of the academic process of the College requires honesty in all phases of the instructional program. The College assumes that students are committed to the principle of academic honesty. Students who fail to honor this commitment are subject to dismissal from Lycoming. Procedural guidelines and rules for the adjudication of cases of academic dishonesty are printed in the *Faculty Handbook* available to students in the library.



## INTERDISCIPLINARY MAJORS

### ESTABLISHED INTERDISCIPLINARY MAJORS (EIM)

#### ACCOUNTING-MATHEMATICS

Co-ordinator—Assistant Professor Feldmann

The Accounting-Mathematics Interdisciplinary Major is designed to offer, within a liberal arts framework, courses which will aid you in constructing mathematical models for accounting decision making. You will obtain a substantial background in mathematics and a working knowledge in accounting.

Majors will be only four courses short of a math major and three courses short of an accounting major. Required accounting courses are: Elementary, Intermediate, Cost and Budgetary Accounting Theory. In Mathematics they are: Analytic Geometry and Calculus I, II, and III; and Linear Algebra; plus two courses from Differential Equations, Introduction to Numerical Analysis, and Mathematic Statistics I and II. Business courses required are Legal Principles I and II. Recommended courses include: Computer Science, Introduction to Statistics, Financial Management, Statistics Applied to Business, Insurance, Principles of Economics, Industrial Psychology, Social Psychology, and Introduction to Sociology.

#### LITERATURE

Co-ordinator—Associate Professor Maples

This major recognizes literature as a distinct discipline beyond national boundaries and combines the study of any two literatures in the areas of English, French, German, Russian, and Spanish. You can thus explore two literatures widely and intensively at the upper levels of course offerings within each of the respective departments while developing and applying skills in foreign languages. The major prepares you for graduate study in either of the two literatures studied or in Comparative Literature.

The major requires at least six literature courses, equally divided between the two literatures concerned. The six must be at the advanced level as determined in consultation with advisors (normally courses numbered 20 and above in English and 40 and above in Foreign Languages). In general, two of the advanced courses in each literature should be period courses. The third course, taken either as a regular course or as independent study, may have as its subject another period, a particular author, genre, or literary theme, or some other unifying approach or idea. Beyond these six, the major must include at least two additional courses from among those counting toward a major in the departments involved. Any prerequisite courses in the respective departments (for example, French 23, German 33, 34, Russian 33, 34) should be taken during the Freshman and Sophomore years. You should design your program in consultation with a faculty member from each of the literatures concerned. Programs for the major must be approved by the departments involved.

## NEAR EAST CULTURE AND ARCHEOLOGY

Co-ordinator—Assistant Professor Lutz

The Near Eastern Culture and Archeology interdisciplinary major is designed to acquaint you with the “cradle of Western civilization”, both in its ancient and modern aspects. Majors will complete a minimum of eight to ten unit courses related to the Near East.

Required courses are described in their departmental sections and include:

1. Three courses (semesters) in language and culture from:
  - A. Old Testament Faith and History (Religion 13)
  - B. Religions of the World—Islam and Judaism (Religion 24)
  - C. History and Religion of the Ancient Near East (Religion 26)
  - D. Culture of the Ancient Near East (Religion 27)
  - E. Advanced Old Testament Topics (Religion 36)
  - F. Judaism and Christianity in the New Testament (Religion 40)
  - G. Two semesters of foreign language (Hebrew 11, 12; or independent study of related semitic languages.)
2. Two courses (semesters) in archeology from:
  - A. Palestinian Archeology (Religion 46)
  - B. Special Archeology courses, such as “studies” or in May Term or summer sessions.
3. Two courses (semesters) in related departments, such as: Art, History, Political Science, Religion, and Sociology and Anthropology. These two courses, usually taken in the junior or senior years, can be independent study. Topics should be related either to the ancient or the modern Near East and must be approved in advance by the committee supervising the interdisciplinary study.

Other courses may be required by the supervisory committee but not beyond requiring ten courses in the major. The number of courses taken within this program applicable toward fulfilling the College distribution requirements will vary according to the selection of courses you make.



## SOVIET AREA STUDIES

Co-ordinator—Assistant Professor Winston

The Soviet Area Studies major is an interdisciplinary major designed to offer, within the framework of a liberal arts education, intensified study of the Soviet Union, communism, and related matters. The program enables you to acquire a broader perspective of the USSR than can generally be obtained within one discipline. *A Cultural Tour of the USSR* is normally available in the May Term and can be used to satisfy one of the courses needed for 4 below.

Required courses are described in their departmental sections and include:

1. Six semesters of Russian language and/or literature beyond the elementary level.
2. Topics in Russian and Soviet History (History 46 and 47).
3. Two courses (semesters) of Senior Seminar on the USSR.
4. Four courses (semesters) from:  
Comparative Economic Systems (Economics 23)  
The Soviet Political System (Political Science 36)  
Communist Strategies and Tactics (Political Science 37)  
Social and Political Philosophy (Philosophy 22)

Under this program, up to nine courses required to satisfy the college distribution requirements can be completed from the above courses.

## INDIVIDUAL INTERDISCIPLINARY MAJORS (IIM)

Registrar—Mr. Glunk

Individual Interdisciplinary Majors (IIM) usually involve two or more departments which each already offer a major. An IIM is normally comprised of a minimum of ten courses beyond those satisfying the distribution requirements. If the IIM involves departments not included in meeting the distribution requirements, then the ten courses may include elementary courses usually used to satisfy distribution requirements. However, you are expected to take at least six courses at the advanced (junior or senior) level as determined in consultation with your advisors. Any change in courses comprising the major, which may be desired or needed as you progress, must be authorized by the Committee on Special Studies.

An IIM student is advised by a committee composed of one professor from each department involved. You choose the chairman who functions as your advisor of record, maintains your records, etc. The Committee on Special Studies must certify the successful completion of the IIM for graduation. Your transcript will show:

*Interdisciplinary major in* (Departments), *for example:*  
*Interdisciplinary major in Urban Studies (History, Psychology, Sociology).*

## COURSES

Numbers 1-9 Elementary courses in departments where such courses are not counted as part of the student's major.

Numbers 10-19 Freshman level

Numbers 20-29 Sophomore level

Numbers 30-39 Junior level

Numbers 40-49 Senior level

Numbers 50-59 Special Advanced Courses

Numbers 60-69 Special Sessions Courses

Numbers 70-79 Seminar Study

Numbers 80-89 Independent Study

Numbers 90-99 Independent Study for Departmental Honors

Courses in the 50-59, 70-79, 80-89, 90-99 number series are not listed under each department, but are in effect for each department and represent the particular studies listed opposite the numbers above (that is, seminar study for all departments fall in the 70-79 series, etc.).

Courses not in sequence are listed separately, as:

Introduction to Art	Art 10
Drawing I	Art 11

Courses which imply a sequence are indicated with a dash between, meaning that the first semester must be taken prior to the second, as:

Intermediate French	French 10-11
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# ACCOUNTING

Associate Professor: Richmond (*Chairman*)

Instructor: Huber

The purpose of the major is to give students a thorough foundation in accounting theory, enabling them to enter the profession through public, private, or governmental employment. To achieve this, Accounting 10, 20-21, 30-31, 40, 41, and 43 are required. All majors are advised to enroll in four courses in Economics, including 10/11; Business 23, 35, 36, and 38-39; Mathematics 13 and 15. Business 10 may be substituted for Accounting 10 if a student changes his major.

## 10 ELEMENTARY ACCOUNTING THEORY

An introductory course in recording, classifying, summarizing, and interpreting the basic business transaction. Problems of classification and interpretation of accounts and preparation of financial statements are studied. An IBM computer is used to solve some of these problems.

## 20-21 INTERMEDIATE ACCOUNTING THEORY

An intensive study of accounting statements and analytical procedures with emphasis upon corporate accounts. Price level adjustments, partnerships, joint ventures, installment and consignment sales, branch and home office accounting, and the statement of affairs are among topics studied. *Prerequisite: Accounting 10.*

## 30-31 COST AND BUDGETARY ACCOUNTING THEORY

Methods of accounting for material, labor and factory overhead expenses consumed in manufacturing using job order, process and standard costing. Application of cost accounting and budgeting theory to decision making in the areas of make or buy, expansion of production and sales, and accounting for control are dealt with. *Prerequisite: Accounting 21 or consent of instructor.*

## 40 AUDITING THEORY AND PRACTICE

The science of verifying, analyzing, and interpreting accounts and reports. An audit project is presented, solved and the auditor's report is written. *Prerequisite: Accounting 21.*

## 41 FEDERAL INCOME TAX ACCOUNTING AND PLANNING

Analysis of the provisions of the Internal Revenue Code relating to income, deductions, inventories, and accounting methods. Practical problems involving determination of income and deductions, capital gains and losses, computation and payment of taxes through withholding at the source and through declaration are considered. Planning transactions so that a minimum amount of tax will result is emphasized. *Prerequisite: Accounting 10 or consent of instructor.*

## 42 FEDERAL INCOME TAX ADMINISTRATION AND PLANNING

An analysis of the provisions of the Internal Revenue Code relating to partnerships, estates, trusts, and corporations. An extensive series of problems is considered and effective tax planning is emphasized. *Prerequisite: Accounting 41.*

## 43 CONTEMPORARY ACCOUNTING PROBLEMS

Certain areas of advanced accounting theory, including fund accounting, are covered, and problems are taken from past C.P.A. examinations which require a thorough knowledge of the core courses in their solution. The course is intended to meet the needs of those interested in public accounting and preparation for the Certified Public Accountants Examination. *Prerequisite: Accounting 31 or consent of instructor.*

## ART

Assistant Professor: Shipley (*Chairman*), Hughes  
Instructor: Ameigh  
Part-Time Instructor: Fetter, Wild

A major consists of a balanced program of history of art and studio courses. In addition to the core courses of the major program (Art 11, 15 or 16, 20, 21, 22, 23, 30, and 46), the student will elect two advanced courses in art history. Art 25 and 35, or Art 28 and 38 may be substituted for Art 20 and 30. Majors will be required to present their better work in a one-man show during their senior year.

### 10 INTRODUCTION TO ART

Presents historical and contemporary styles of architecture, sculpture, painting, and the minor arts; considers the roles of the elements of design and of materials and techniques in the creation and appreciation of works of art.

### 11 DRAWING I

Study of the human figure with gesture and proportion stressed. Student is made familiar with different drawing techniques and media. Some drawing from nature. *Offered in alternate semesters with Drawing II and III.*

### 14 DESIGN FOR ELEMENTARY TEACHERS

A course designed to give each student the opportunity to explore, in his own creative style, ideas, techniques and methods for involving children in expressive activities through the use of a wide range of media in the making of prints, puppets, pictorial and design projects, simple modeling, mosaics, plaster casting, weaving and stitchery projects, simple jewelry and gift crafts, lettering projects, mobiles, stables, and other three-dimensional designs created from scrap materials.

### 15 TWO-DIMENSIONAL DESIGN

The basic fundamentals found in the two-dimensional arts; line, shape, form, space, color, and composition are taught in relationship to the other two-dimensional arts. Perceptual theories and their relationships to what and why we see what we see in art is discussed with each problem.

### 16 THREE-DIMENSIONAL DESIGN

An introduction to the uses of form and materials. Objects will be designed whose form follows function, such as kites; whose form follows expressive intent, such as plaster constructions or movie films.

### 20 PAINTING I

An introduction of painting techniques and materials. Coordination of color, value, and design within the painting is taught. Some painting from the figure. No limitations as to painting media, subject matter or style. *Prerequisite: Art 15.*

### 21 DRAWING II

Continued study of the human figure. Emphasis is placed on realism and figure-ground coordination with the use of value and design. *Prerequisite: Art 11.*

### 22 HISTORY OF ART

The development of the visual arts from prehistoric days to the Italian Renaissance.

### 23 HISTORY OF ART

The development of visual arts from the Italian Renaissance to Contemporary Art.



## ART/69

### 24 AMERICAN ART

Painting, sculpture, architecture, and the decorative arts in the United States between 1630 and the present. *Alternate years.*

### 25 SCULPTURE I

An introduction to the techniques, materials, and ideas of sculpture. Clay, plaster, wax, wood and other materials will be used. The course will be concerned with ideas about sculpture as expression, and with giving material form to ideas.

### 26 CRAFTS I

An introduction to the various craft materials, processes, design problems, and techniques involved in work in such crafts as clay, wood, fiber, metal, and plastics.

### 27 INTRODUCTION TO PHOTOGRAPHY

Objectives of the course are to develop technical skills in the use of photographic equipment (cameras, films, darkroom, print maker) and to develop sensitivity in the areas of composition, form, light, picture quality, etc. Each student must own or have access to a 35 mm roll film camera.

### 28 PRINTMAKING I

Practice of the techniques of silk-screen, wood-block, and linoleum-block printing. *Prerequisite: Art 11 and 15.*

### 30 PAINTING II

Emphasis is placed on individual style and technique. Artists and movements in art are studied. No limitations as to painting media, subject matter, or style. *Prerequisite: Art 20.*

### 31 MODERN ART

The chief works and movements of European painting and sculpture between 1880 and the present.

### 32 AMERICAN ART OF THE 20TH CENTURY

Painting, sculpture, and architecture in the United States with emphasis on developments after 1945.

### 33 19TH CENTURY ART

Painting, sculpture, and architecture in Europe between 1760 and 1900.

### 34 ASPECTS OF THE RENAISSANCE

Painting, sculpture, and architecture of the Renaissance—15th and 16th century.

### 35 SCULPTURE II

A continuation of Art 25 or Art 16, with emphasis on independent projects and more complex technique. Casting of bronze and aluminum sculpture will be done in the school foundry. *Prerequisite: Art 16 or 25.*

### 36 CRAFTS II

More advanced experimentation with crafts materials, with greater emphasis upon good craftsmanship and aesthetic quality. *Prerequisite: Art 26.*

### 38 PRINTMAKING II

Further exploration of silk-screen printing techniques, practice of the techniques of engraving, drypoint, etching, and aquatint.

### 40 PAINTING III

Professional quality is stressed. There is some experimentation with new painting techniques and styles.

### 41 DRAWING III

Continued study of the human figure. Individual style and professional control of drawing techniques and media are now emphasized.

### 46 STUDIO RESEARCH

Independent research in an elective studio area, conducted under the supervision of the appropriate faculty member, includes creation of works which may be incorporated in one-man senior exhibition. Student works in private studio assigned by the department.

# BIOLOGY

Associate Professor: Kelley  
Assistant Professor: Angstadt (*Chairman*), Diehl, Green,  
Mayers, Sherbine  
Instructor: Zaccaria

A major consists of eight Biology courses including 10-11, 20, 21, 22, 23, and 24. In addition, one year each of chemistry and mathematics is required. Certain specific exceptions to the core program will be made for three-year students enrolled in cooperative programs. Such exceptions are noted under the particular cooperative program heading in the Career Opportunities section of the catalog and students interested in these programs should contact the Program Director before finalizing their individual program. Credit may not be earned for both Biology 1 and 10 or for both Biology 2 and 11. Consent of instructor may replace Biology 10-11 as a prerequisite for all Biology courses.

## 1-2 PRINCIPLES OF BIOLOGY

An investigation of biological principles, including ecological systems, form and function in selected representative organisms (especially man), cell theory, molecular biology, reproduction, inheritance, adaptation, and evolution. The course is designed primarily for students not planning to major in the biological sciences.

## 3 FIELD BIOLOGY FOR TEACHERS

A methods course for students preparing to teach biology. Sources and methods of collecting and preserving various plant and animal materials. *Offered summer only.*

## 5-6 BASIC HUMAN BIOLOGY

An introduction to the physics and chemistry relative to biological systems. Human anatomy, physiology, and developmental biology will be surveyed. An introduction to microbiology with emphasis on host-pathogen relationships and the immune response.

## 10-11 INTRODUCTION TO BIOLOGY

An introduction to the study of biology designed for students planning to major in the biological sciences. Major topics considered include the origin of life, cellular respiration and photosynthesis, genetics, development, anatomy and physiology, ecology, behavior and evolution.

## 20 CELLULAR PHYSIOLOGY

Physico-chemical background of cellular function; functions of membrane systems and organelles; metabolic pathways; biochemical and cellular bases of growth; development and responses of organisms. *Prerequisite: Biology 10-11, and a year of Chemistry.*

## 21 MICROBIOLOGY

A study of micro-organisms: bacteria, viruses, protozoa, and fungi. Emphasis is given to the identification and physiology of micro-organisms as well as to their role in disease, their economic importance and industrial applications. *Prerequisite: Biology 10-11.*

## 22 GENETICS

A general consideration of the principles governing inheritance including treatments of classical, molecular, cytological, physiological, microbial, human and population genetics. *Prerequisite: Biology 10-11.*

## 23 ANIMAL PHYSIOLOGY

The mechanisms and functions of animal systems including the autonomic, endocrine, digestive, cardio-vascular, respiratory, renal, nervous, and reproductive systems. Mammalian physiology is stressed. *Prerequisite: Biology 10-11.*

## BIOLOGY/71

### 24 ECOLOGY

The study of the principles of ecology with emphasis on the role of chemical, physical, and biological factors affecting the distribution and succession of plant and animal populations and communities. Included will be field studies of local habitats as well as laboratory experimentation. *Prerequisite: Biology 10-11.*

### 30 COMPARATIVE ANATOMY OF VERTEBRATES

Detailed examination of the origins, structure, and functions of the principal organs of vertebrates. Special attention is given to the progressive modification of organs from lower to higher vertebrates. *Prerequisite: Biology 10-11. Alternate years.*

### 31 HISTOLOGY

A study of the basic body tissues and the microscopic anatomy of the organs and structures of the body which are formed from them. Focus is on normal human histology. *Prerequisite: Biology 10-11. Alternate years.*

### 32 MICROTECHNIQUES

A course designed to acquaint the student with the principles and techniques of preparing biological materials for microscopic study. *Prerequisite: Biology 10-11. Alternate years.*

### 33 ECONOMIC AND SYSTEMATIC BOTANY

Structure and classification of plants, with emphasis on those species, particularly food and drug plants, having significance for human affairs. *Prerequisite: Biology 10-11. Alternate years.*

### 34 INVERTEBRATE ZOOLOGY

Comparative study of the invertebrate phyla with emphasis on phylogeny, physiology, and morphology. *Prerequisite: Biology 10-11. Alternate years.*

### 40 PARASITOLOGY

The biology of parasites and parasitism. Studies on the major groups of animal parasites, their taxonomy and life cycles, with an emphasis on those of medical and veterinary importance. *Prerequisite: Biology 10-11. Alternate years.*

### 41 VERTEBRATE EMBRYOLOGY

A study of the development of vertebrates from the fertilized eggs to the fully formed embryo. Particular attention is given to the chick and human as representative organisms. *Prerequisite: Biology 10-11. Alternate years.*

### 42 ANIMAL BEHAVIOR

A study of the causation, function, evolution, and biological significance of animal behaviors in their normal environmental and social contexts. *Prerequisite: Biology 10-11. Alternate years.*

### 43 ICHTHYOLOGY

The course will encompass the anatomy, taxonomy, and life histories of both freshwater and marine fish. Species of major economic and sport interest will be featured, while the areas of fish management, aquiculture, and fish harvesting will be considered. *Prerequisite: Biology 10-11. Alternate Years.*

### 44 BIOCHEMISTRY

Emphasis is given to the metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids; integration of metabolism; and biochemical control mechanisms including allosteric control, induction, repression, as well as the various types of inhibitive control mechanisms. *Prerequisite: Chemistry 20-21 or Chemistry 5, or consent of instructor. Alternate years.*

### 45 EVOLUTION

A history of evolutionary thought, including the genetic, systematic, ecological, and zoo-geographical concepts which are related to the process of evolution. *Prerequisite: Biology 10-11. Alternate years.*

### 46 PLANT ANATOMY AND PHYSIOLOGY

A study of plant physiology as a function of plant anatomy. Metabolic relationships and environmental factors will be examined from a background of the structure and development of cells, tissues, organs, and whole plants. *Prerequisite: Biology 10-11. Alternate years.*

## BUSINESS ADMINISTRATION

Associate Professor: Hollenback (*Chairman*)

Assistant Professors: King, Malcolm

Instructor: Stauffer

Lecturer: Larrabee

Part-Time Instructor: Ginsburg

The major is designed to train the student in analytical thinking and verbal and oral communication, in addition to educating him in the principal disciplines of business. To accomplish this, ten courses are required: Business 10-11, 23, 28-29, 38-39, 40, and 41 and Mathematics 13. Accounting 10 may be substituted for Business 10 if a student changes his major. Majors also are urged to enroll in Economics 10/11; Business 35 and 36; Mathematics 12 and 15. The additional elective offerings are intended to add depth in the areas of finance, marketing, and management.

### 10-11 MANAGERIAL ACCOUNTING

The business firm is a decision-making institution adapting to a constantly changing environment. Future administrators and managers are introduced to their stewardship responsibilities by use of accounting and statistical techniques as tools in planning and controlling the organization.

### 23 QUANTITATIVE BUSINESS ANALYSIS

Techniques of quantitative analysis useful in business management. Topics include: sampling, hypothesis testing, index numbers, analysis of time series, linear programming, and decision theory. *Prerequisite: Math 13 or consent of instructor.*

### 28-29 MARKETING MANAGEMENT

Planning, organization, and control of the distribution activities of the firm, and an analysis and evaluation of the marketing system, its institutions and processes. Application of marketing principles and the development of strategies for specific marketing problems. Product, channel flow, promotion and pricing strategies explored. Readings, cases, and games.

### 32 SALES PROMOTION

Nature, scope, methods, and effects of promotion. Techniques of analysis and control in the use of advertising, personal selling, and publicity as tools in developing business strategy.

### 33 INVESTMENTS

Analysis of the leading types of investments available to the individual and the firm. Use of forecasting methods, financial reports, and financial indicators. Methods of buying and selling securities with a discussion of the agencies involved including brokerage houses and stock exchanges.

### 34 INSURANCE

Analysis of the major insurance methods of overcoming risk, including: life, accident, health, marine, and social insurance. Fidelity and surety bonds. Commercial and government plans.

### 35 LEGAL PRINCIPLES I

Lectures and analysis of cases on the nature, sources, and fundamentals of the law in general, and particularly as relating to contracts, agency, and negotiable instruments. *Open only to juniors and seniors.*

### 36 LEGAL PRINCIPLES II

Lectures on the fundamentals and history of the law relating to legal associations, real property, wills, and estates. *Open only to juniors and seniors.*

38-39 FINANCIAL MANAGEMENT

Planning, organization, and control of the financial aspects of the firm. Development of financial principles and application to specific situations. Sources and uses of funds, costs of funds, profit determination, expansion, reorganization and liquidation. *Prerequisite: Business 11 or Accounting 20, and Business 23.*

40 MANAGEMENT CONCEPTS

Structural characteristics and functional relationships of a business organization as well as the problems encountered in coordinating the internal resources of a firm. Emphasis on administrative efficiency and procedures.

41 BUSINESS POLICIES

Planning, organization, and control of business operations; setting of goals; coordination of resources; development of policies. Analysis of strategic decisions encompassing all areas of a business, and the use and analysis of control measures. Emphasis on both the internal relationship of various elements of production, finance, marketing, and personnel and the relationship of the business entity to external stimuli. Readings, cases, and games. *Prerequisites: Business 23, 28-29, 38-39, and 40 or consent of instructor. Seniors only.*

42 PERSONNEL MANAGEMENT

An introduction to the managerial problems of recruiting, selecting, training, and retraining the human resources of the firm. Emphasis is placed on the inter-relationship of personnel policies with management objectives and philosophies in such areas as fringe benefits, wage and salary policies, union activities, and health and safety.

43 RETAIL MANAGEMENT I

Planning, organization, and control of the retailing firm. Competitive strategy developed through store location, layout, administrative organization, buying and pricing. Cases, reading, and papers. *Alternate years.*

44 RETAIL MANAGEMENT II

Inventory control, retail sales, promotion, and financial analysis of the enterprise. Survey of current issues and governmental, social, and economic forces of concern to the retailer. Retailing principles applied to specific management situations through cases, games, and reading. *Prerequisite: Business 43 or consent of instructor. Alternate years.*

45 ORGANIZATIONAL THEORY

An analysis of organizational design through the use of analytical models. Using the systems approach, an understanding of human behavior in formal organizations is developed, and practical problems of organizational design are discussed. Topics include: traditional organizational theory, behavior patterns, organizational design, and change. *Alternate years.*

46 PRODUCTION MANAGEMENT

An introduction to the production function in industry. Topics include: product design, plant location and layout, operational analysis, performance standards, line balance theory, inventory control, and the impact of automation through technological change. *Alternate years.*



## CHEMISTRY

Professors: Hummer (*Chairman*), Radspinner

Assistant Professors: Franz, Turner

A major consists of eight Chemistry courses: Chemistry 10-11, 20-21, 30-31, 32, and 33; Mathematics 18-19, 20, and Physics 10-11. Mathematics 15 and 21, and French, German, or Russian are highly recommended. Placement in Chemistry is determined, in part, by an examination taken by all students upon initial enrollment in the subject. Credit may not be earned for both Chemistry 1 and 10 or for both Chemistry 2 and 11.

### 1-2 GENERAL CHEMISTRY

An introduction to the fundamental principles of chemistry including stoichiometry, atomic and molecular structure and properties, the states of matter, solutions, kinetics, equilibrium, and nomenclature. A study of the chemistry of selected elements and their compounds is made through application of fundamental principles with particular attention focused on representative metals and their inorganic compounds and on the covalent chemistry of carbon including synthetic and naturally occurring compounds. The laboratory treats the qualitative analysis both of inorganic ions and of organic compounds as well as quantitative relationships. *Three hours lecture, one hour discussion and one three-hour laboratory period per week.*

### 5 BRIEF ORGANIC CHEMISTRY

This course is designed for those non-chemistry majors who elect a single semester course only in organic chemistry. The material will illustrate principles and concepts of organic chemistry supported by that descriptive material which would find application for students of medical technology, biology, nursing, forestry, education, and the humanities. Topics included are bonding and structure, alkanes, alkenes, arenes, and their functional derivatives, amino acids and proteins, carbohydrates, and other naturally-occurring compounds. *Three hours of lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 2 or 11.*

### 10-11 ADVANCED GENERAL CHEMISTRY

A rigorous introduction to the concepts and models of chemistry. The foundations of physical, analytical, and inorganic chemistry are emphasized. Both qualitative and quantitative analysis procedures are included in laboratory work as well as investigations of physical and chemical properties of compounds and mixtures. *Three hours lecture, one hour discussion, and one three-hour laboratory period per week. Prerequisite: Placement by examination.*

### 20-21 ORGANIC CHEMISTRY

A systematic study of the compounds of carbon including both aliphatic and aromatic series. The laboratory work introduces the student to simple fundamental methods of organic synthesis, isolation, and analysis. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 2 or 11.*

### 30-31 PHYSICAL CHEMISTRY

A study of the fundamental principles of theoretical chemistry and their applications. The laboratory work includes techniques in physiochemical measurements. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 11, Mathematics 20, and one year of Physics or consent of instructor.*

### 32 ANALYTICAL CHEMISTRY

A study of the fundamental methods of gravimetric, volumetric, and elementary instrumental analysis together with practice in laboratory techniques and calculations of these methods. *Two hours lecture and two three-hour laboratory periods each week. Prerequisite: Chemistry 11 or consent of instructor.*

33 ADVANCED INORGANIC CHEMISTRY

A study of modern theories of atomic and molecular structure and their relationship to the chemistry of selected elements and their compounds. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 30, Mathematics 20, and one year of Physics or consent of instructor.*

39 INTRODUCTION TO QUANTUM MECHANICS

After presenting the origin, basic concepts and formulation of Quantum Mechanics with emphasis on its physical meaning the free particle, simple harmonic oscillator and central force problems will be investigated. Both time independent and time dependent perturbation theory will be covered. The elegant operator formalism of quantum mechanics will conclude the course. *Four hours of lecture and recitation. Prerequisites: Mathematics 21; either Chemistry 31 or Physics 23, and consent of instructor.*

40 ADVANCED ORGANIC CHEMISTRY

Selected topics, which may include mechanisms of organic reactions, synthesis, detailed structure and chemistry of natural products, polynuclear hydrocarbons, and aromatic heterocyclics. *Three hours lecture. Prerequisite: Chemistry 20-21.*

41 QUALITATIVE ORGANIC ANALYSIS

Theory and application of the systematic identification of pure organic compounds and mixtures. *Two hours lecture and two three-hour laboratory periods each week. Prerequisite: Chemistry 20.*

42 ADVANCED PHYSICAL CHEMISTRY

Topics in theoretical chemistry selected from quantum mechanics, statistical mechanics, and current literature. *Four hours lecture each week. Prerequisite: Chemistry 31 and 33.*

43 ADVANCED ANALYTICAL CHEMISTRY

A study of advanced analytical methods with emphasis on chromatographic, electrochemical, and spectroscopic methods of analysis. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 31 and 32.*

44 BIOCHEMISTRY

Emphasis is given to the metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids; integration of metabolism; and biochemical control mechanisms including allosteric control, induction, repression, as well as the various types of inhibitive control mechanisms. *Prerequisite: Chemistry 21 or 5 or consent of instructor.*

45 SPECTROSCOPY AND MOLECULAR STRUCTURE

Theory and practice of molecular structure determination by spectroscopic methods. *Three hours lecture. Pre or co-requisites: Chemistry 31, 33, or consent of instructor.*

48 CHEMISTRY COLLOQUIUM

A seminar in which faculty, students, and invited professional chemists discuss their own research activities or those of others which have appeared in the recent chemical literature. *Prerequisite: Three semesters of non-credit Chemistry Colloquium 00 taken during the junior and senior years.*



# ECONOMICS

Professor: Rabold (*Chairman*)

Associate Professor: Opdahl

The major has two tracks: Track I is designed for students whose primary interest lies in business management; Track II is designed for students with an interest in graduate work, teaching, government, or non-business careers and for those with less defined interests.

*Track I - Managerial Economics* requires: Economics 10/11, 32, and 41; Business 10-11, or Accounting 10 and 20; Business 38 and 39; plus two electives from the following: Economics 31, 35, 37, 43 and Business 40.

*Track II - Political Economy* requires: Economics 10/11, 30, 31, 40 and five electives of which three must be in economics and two in political science, all selected with the advice and consent of the student's advisor or department chairman.

In addition, the following courses are recommended: All majors - Math 13 and Business 23; Majors planning graduate work - Math 18-19; Track II majors - Business 10-11.

## 10/11 PRINCIPLES OF POLITICAL ECONOMY\*

An introduction to the problem of scarcity; to the economic thought, principles, institutions, and systems to which the problem has given rise.

## 20 MONEY AND BANKING

Monetary and fiscal factors affecting the level of national income; financial organization of society; the banking system, credit institutions, capital markets, and international financial relations. *Prerequisite: Economics 10 and 11.*

## 22/23 COMPARATIVE ECONOMIC SYSTEMS\*

The economic development and comparative analysis of contemporary economic systems, particularly capitalism, socialism, and communism. *Alternate years.*

## 30/31 INTERMEDIATE ECONOMIC ANALYSIS\*

An analysis of contemporary value, distribution, and income theory. First semester is micro-economics; second is macro-economics. *Prerequisite: Economics 10/11.*

## 32 GOVERNMENT AND THE ECONOMY

An analytical survey of the areas of contact of government at all levels with the American economy, especially in the areas of anti-trust legislation and public utilities. *Prerequisite: Economics 10/11 or consent of instructor. Alternate years.*

## 35 LABOR PROBLEMS

The development of labor unions, particularly in the United States; consideration of the evolution of labor and wage theories, labor legislation, and contemporary issues of labor-management relations. *Alternate years.*

## 37 PUBLIC FINANCE

An analysis of the fiscal economics of the public sector, to include the development, concepts, and theories of public expenditures, taxation, and debt at all levels of American government. Includes also the use of fiscal policy as an economic control device. *Prerequisite: Economics 10 and 11 or consent of instructor.*

## 40 HISTORY OF ECONOMIC THOUGHT

A discussion of the origins, development, and significance of the economic ideas embodied in the works of Smith, Marx, Schumpeter, Keynes, and others. *Prerequisite: Economics 10 and 11 or consent of instructor.*

\* These two courses (one semester each) may be taken in either order, or only one may be taken.



41 MANAGERIAL ECONOMICS

The application of economic theory and methodology to the solution of business problems. Subjects include: optimizing techniques, risk analysis, demand theory, production theory, cost theory, linear programming, capital budgeting, market structures, and the theory of pricing. *Prerequisites: Business 38 and 39 or consent of instructor.*

43 INTERNATIONAL TRADE

A study of the principles, theory, development, and policies concerning international economic relations, with particular reference to the United States. *Prerequisite: Economics 10 and 11. Alternate years.*

45 DEVELOPMENT OF UNDERDEVELOPED NATIONS

A study of the theories and problems of capital accumulation, allocation of resources, technological development, growth, planning institutions and international relations encountered by the developing nations. *Alternate years.*

## EDUCATION

Associate Professor: Schaeffer (*Chairman*)

Assistant Professors: Conrad, Goodman, Keesbury

Education 20 and Psychology 38 are prerequisites to all other offerings in the Education Department. Education 20 must be taken at least two (2) semesters before the Professional Semester.

Students seeking elementary certification must complete Mathematics 7, Education 30, 40, 41, and 42 as prerequisites to the Professional Semester, which includes Education 45, 47, and 48. They must also complete the Elementary Games section of the Physical Education course.

Students seeking secondary certification must fulfill the requirement of a participation experience in area schools before the Professional Semester. Arrangements for participation are to be made through the Education Department. All requirements of the major must be completed in addition to the professional semester which includes Education 46, 47, and 49.

20 INTRODUCTION TO THE STUDY OF EDUCATION

A study of teaching as a profession with emphasis on the economic, social, political, and religious conditions which influence American schools and teachers. Consideration is given to the school environment, the curriculum, and the children with the intention that the student will examine more rationally his own motives for entering the profession. *Not open to freshmen.*

30 THE PSYCHOLOGY AND TEACHING OF READING  
IN THE ELEMENTARY SCHOOL

A background course in the psychological, emotional, and physical bases of reading. A study of the learning process as it applies to reading, child development and the curriculum. The development of a reading program from the beginning (readiness) through principles, problems, techniques, and materials used in the total elementary schools. Observation of and participation with superior teachers in elementary schools of the Greater Williamsport Area. *Prerequisites: Education 20 and Psychology 38.*

32 INSTRUCTIONAL MEDIA AND COMMUNICATIONS

A study of the value, design, construction, and application of the visual and auditory aids to learning. Practical experience in the handling of audio-visual equipment and materials is provided. Application of Audio-Visual Techniques. Application of the visual and auditory aids to learning. Students will plan and carry out actual teaching assignments utilizing various A-V devices. *Summer session only.*

## 39 PUBLIC SCHOOL CURRICULUM

An examination of the various curricula of the public schools and their relationship to current practices. Special attention will be given to the meaning and nature of the curriculum; the desirable outcomes of the curriculum; conflicting and variant conceptions of curricular content; modern techniques of curricular construction; criteria for the evaluation of curricula; the curriculum as a teaching instrument. Emphasis will be placed upon the curriculum work within the teaching field of each individual. *Summer session only.*

40 LANGUAGE ARTS AND CHILDREN'S LITERATURE  
FOR ELEMENTARY TEACHERS

This course is designed to consider the principles, problems, materials and techniques of teaching English, spelling, penmanship, choral speaking, and children's literature. Observation of superior teachers in elementary schools of the Greater Williamsport Area. *Prerequisite: Education 30.*

41 TEACHING THE SOCIAL STUDIES IN THE  
ELEMENTARY SCHOOL

Studies and experiences to develop a basic understanding of the structure, concepts, and processes of anthropology, economics, geography, history, political science, and sociology as these relate to the elementary school social science curriculum. Practical applications, demonstrations of methods, and the development of integrated teaching units using texts, reference books, films, and other teaching materials. *Prerequisite: Education 30.*

42 SCIENCE, HEALTH, AND SAFETY FOR  
ELEMENTARY TEACHERS

Science methods and materials interpreting children's science experiences and guiding the development of their scientific concepts. A briefing of the science content of the curriculum, its material and use. An introduction to the methods of first aid, preservation of health, prevention of accidents, and the development of good health habits. *Prerequisite: Education 30.*

45 METHODS OF TEACHING IN THE ELEMENTARY SCHOOL  
(PART OF THE PROFESSIONAL SEMESTER)

A study of methods and materials of teaching all elementary school subjects, including art and music, with a view to preparing students for their particular student teaching assignment. Demonstration lessons by students, micro-teaching, simulation activities, and group interrelation studies may be included. *Prerequisites: Education 40, 41, and 42.*

46 METHODS OF TEACHING IN THE SECONDARY SCHOOL  
(PART OF THE PROFESSIONAL SEMESTER)

A study of materials, methods, and techniques of teaching with emphasis on the student's major. Stress is placed on the selection and utilization of visual and auditory aids to learning. Students will teach demonstration lessons in the presence of the instructor and the members of the class and will observe superior teachers in the secondary schools of the Greater Williamsport Area. *Prerequisites: Education 20, Psychology 38, and the Participation Experience.*

47 PROBLEMS IN CONTEMPORARY AMERICAN EDUCATION  
(PART OF PROFESSIONAL SEMESTER)

Seminar in the issues, problems and challenges encountered by teachers in the American public schools, especially those related to the student teaching experience.

48 PRACTICE TEACHING IN THE ELEMENTARY SCHOOL  
(PART OF THE PROFESSIONAL SEMESTER)

Two Units. Exceeds state mandated minimum requirement. Professional laboratory experience under the supervision of a selected cooperating teacher in a public elementary school of the Greater Williamsport Area. Organized learning experiences. Actual classroom experience.\*

\* Practice teachers are required to follow the calendar of the school district to which they are assigned.

49 PRACTICE TEACHING IN THE SECONDARY SCHOOL  
(PART OF THE PROFESSIONAL SEMESTER)

Two Units. Exceeds state mandated minimum requirement. Professional laboratory experience under the supervision of a selected cooperating teacher in a public secondary school of the Greater Williamsport Area. Organized learning experiences. Emphasis on actual classroom experience, responsibility in the guidance program and out-of-class activities.\*

## ENGLISH

Professor: Graham

Associate Professor: Gustafson (*Chairman*), Madden

Assistant Professors: Bayer, Ford, Jensen, Rife, Sawyer

A major consists of ten courses not including English 1. These ten courses must include:

*Literary Periods* — Three courses, one course to be chosen from each of three of these groups: English 20 or 21; English 22 or 23; English 24, 25, or 26; English 27, 28, or 29.

*Genres and Particular Authors* — Two courses, one course to be chosen from each of these groups: English 30, 31, 32, 33, or 34; English 35, 36, or 37.

*Special Topics* — Two courses, chosen from English 40, 41, 42, 43, 44, 45, 48. With the consent of the department, a course such as Theater 40 or Foreign Language 25 may be included among the ten required for the English major.

Majors seeking secondary certification in English are required to take English 46.

1 RHETORIC

Instruction and carefully supervised practice in the basic techniques of organizing and expressing facts and ideas. The topic or topics dealt with are selected by the instructor.

12 INTRODUCTION TO LITERATURE

An introduction to the study of literature, this course is primarily designed for freshmen seeking an elective to fulfill half of their English Distribution requirement. Through lectures and discussions, the course will introduce the student to a variety of literary genres, including poetry, fiction, and drama. The lectures will be delivered by members of the English Department, and on occasion by members of other departments, and the discussions will be led by select upper-division English majors.

20 MEDIEVAL LITERATURE

A study of the epic, romance, lyric and drama from Beowulf to Malory's *Le Morte Darthur* and *Everyman*, with some attention to continental works influencing the development of English literature.

21 RENAISSANCE LITERATURE

A study of English literary traditions from 1500 through the Elizabethan Age within the context of humanism and the Reformation. Emphasis on the works of major writers: More, Spenser, Marlowe, Shakespeare, Jonson, and others. Some consideration of continental influences on works of the period.

22 17TH CENTURY BRITISH LITERATURE

By means of wide reading among the works of some major authors of the period, an understanding of the literature and the period will be pursued.

23 18TH CENTURY BRITISH LITERATURE

A close analysis of selected works of the major writers (from Pope and Swift to Johnson). Emphasis will be placed on the development of traditions of attitude (literary, social, and philosophical) and on the chief genres of the period.

24 ROMANTIC LITERATURE (1780-1832)

A study of the literary, philosophical, and historical significance of the Romantic Movement. Emphasis will be given to the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

25 VICTORIAN LITERATURE (1832-1901)

A study of major works of British prose, poetry, and fiction from 1832 to 1901. Emphasis on the individual qualities of each selection, and on its relation to Victorian life and thought. Authors likely to be read include Dickens, Trollope, Eliot, Meredith, Thackeray, Hardy, Carlyle, Mill, Arnold, Ruskin, Newman, Pater, Tennyson, Browning, Swinburne, and Hopkins.

26 PRE-CIVIL WAR AMERICAN LITERATURE

A survey of American literature and thought before 1830, followed by more intensive study of the literature and thought of the period 1830-1860. Cooper, Emerson, Thoreau, Poe, Hawthorne, Melville, and others.

27 20TH CENTURY BRITISH LITERATURE

Chief attention will be paid to the major works of poetry, fiction, and drama from Conrad to Beckett, with emphasis on the development of peculiarly 20th Century forms and traditions.

28 POST-CIVIL WAR AMERICAN LITERATURE

Major writers, movements, and influences in American Literature from about 1860-1950, with strong emphasis on Naturalism and Realism. Twain, James, Crane, Hemingway, Fitzgerald, Faulkner, O'Neill, Robinson, Frost, Eliot, Stevens, *et al.*

29 CONTEMPORARY LITERATURE

Representative works of major figures of the post-World War II period, British, American, and some Continental. Auden, Pinter, Murdoch, Amis, Hughes, Thomas, Greene; Beckett, Grass, Camus, Sartre; Albee, Bellow, Heller, Vonnegut, Lowell, *et al.* This course may be structured around a single theme or idea, such as "The Search for a Father," "The Contemporary Wasteland," or "The Function of Violence in the Modern World."

30 THE NATURE OF DRAMA

An examination of the forms and techniques of the drama. The course will vary in content and may focus on one or several playwrights or periods.

31 THE NATURE OF POETRY

Poetry will be studied with special attention given to considering the "kinds" (e.g. lyric, epic, etc.) of poetry, and the various ways of reading poems.

32 THE NATURE OF SHORT FICTION

Study and analysis of short stories and novellas with form and language being a primary consideration. The course will vary in content and may focus on one or several writers or periods.

33 THE NOVEL

Representative novels, from the eighteenth century to the present, with emphasis on the development of the genre.

34 LITERARY CRITICISM

A study of major critical approaches to the reading of literature. Practice in writing formal critical analyses of selected works.

35 CHAUCER

A study of the major poetry of Chaucer, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*, with some reference to the traditions out of which these works arose.

36 SHAKESPEARE

A study of selected major plays, with emphasis given to their relation to Shakespeare's age and our own.

37 SELECTED AUTHORS

An intensive study of one or more authors, selected on the basis of student and faculty interest. *This course may be repeated for credit.*

38 WORLD LITERATURE IN TRANSLATION

Continental authors will be chosen on the basis of their influence on English writers and for their contribution to the student's understanding of literature. (Possible examples: Homer, Vergil, Dante, Cervantes, Flaubert, Dostoevsky, Chekov, Ibsen, Ionesco, Camus, Kafka, and Hesse).

40 LITERATURE AND LANGUAGE: FORMAL APPROACHES

The general subject of such a course might be the history and theory of literature, with, for example, the specific topic being the relationships between the development of the English language and its poetics by means of a consideration of traditional metric theories in light of current linguistic research; or, the general subject of such a course might be semantics and theories of meaning, with attention given to various schools of thought such as those of the semanticists, the General Semanticists, the Semologists, and so on; or, the course might take up special topics in linguistics. *This course may be repeated for credit.*

41 TRADITIONAL THEMES IN LITERATURE

Persistent themes, legends, and ideas in literature—King Arthur, Faust, Utopia; alienation, *rite de passage*, the quest; existentialism, determinism, and the like. *This course may be repeated for credit.*

42 LITERATURE IN ITS EXTERNAL RELATIONS

Emphasis will be on literature in its relation to specific cultural manifestations. Individual courses may be organized around such materials as Literature and Psychology, Literature and Industrialism, Literature and Philosophy, and so on. *This course may be repeated for credit.*

43 CONTRASTIVE STUDIES

Emphasis will be on comparisons and contrasts among the literatures of more than one period, nation, or group, or among literature and other media. Individual courses might consider such contrastive materials as American and Russian Frontier Literature; Literature of the Folk and of the Establishment, and so on. *This course may be repeated for credit.*

44 WRITING WORKSHOP: NON-FICTION

A workshop course dealing with the professional treatment of factual material for magazines or newspapers. Emphasis on the informal essay, feature article, interview, or news story with consideration of the interests of individual students. Roundtable discussions will be supplemented by personal conferences. *This course may be repeated for credit.*

45 WRITING WORKSHOP: FICTION, POETRY

Emphasis will be on practical experience in writing imaginative literature (e.g. poetry, short story, drama, etc.). The course will focus on a single form of imaginative writing. *May be repeated for credit. Prerequisite: Consent of instructor.*

46 THE STRUCTURE AND HISTORY OF THE ENGLISH LANGUAGE

A study of modern language theories as applied to Modern English and its historical origins. Emphasis in any given semester will be on Structural or Generative-Transformational approaches to the understanding of language.

48 SENIOR SEMINAR

A special course for senior majors, concentrating on the application of different kinds of criticism to a heterogeneous group of literary works chosen by the students in consultation with members of the department. The literary works must be selected before the end of the students' junior year, and must be read before the course begins. *This course may be repeated for credit.*

## FOREIGN LANGUAGES AND LITERATURES

Associate Professors: Flam, Maples  
Assistant Professors: Winston (*Chairman*), Dufour,  
MacKenzie, Rassoul  
Part-time Instructor: Picot

Study of foreign languages and literatures offers opportunity to explore, broadly, the varieties of human experience and thought. It contributes both to personal and to international understanding by providing competence in a foreign language and a critical acquaintance with the literature and culture of foreign peoples. A major can serve as entree to careers in business, industry, government, publishing, education, journalism, social agencies, translating, and writing. It prepares for graduate work in literature or linguistics and the international fields of politics, commerce, law, health, and area studies.

FRENCH, GERMAN, RUSSIAN, and SPANISH are offered as major fields of study. The major consists of eight courses numbered 10 or above. Majors seeking teacher certification and students planning to enter graduate school are advised to begin study of a second foreign language. The department encourages the development in breadth of programs including allied courses from related fields or a second major, and also individual or established interdisciplinary majors combining interest in several literatures or area or cross-cultural studies, for example: Soviet Area Studies, Western European Studies, 20th Century Studies, the Major in Literature. Majors, teaching certification candidates, and in fact all college students are encouraged to spend at least a semester of study abroad by applying to one of the many programs available. The department maintains a file of such programs. The department also participates in a student exchange program with the Padagogische Hochschule of Gottingen.

### FOREIGN LANGUAGES AND LITERATURES (Wholly or partially taught in English)

#### 25 CONTINENTAL LITERATURE

A study of such major continental authors as Cervantes, Dostoevsky, Chekov, Dante, Ibsen, Proust, Gide, Kafka, Hesse, Goethe, Sartre, Camus, Brecht, and Ionesco. Works read in English translation will vary and be organized around a different theme or topic; recent topics have been existentialism and modernism. *Prerequisite: None. May be repeated for credit with consent of instructor.*

#### 38 FOREIGN LANGUAGE: SYSTEMS AND PROCESS

Study of basic linguistic concepts as a tool for language learning and teaching. Discussion and application of modern language teaching techniques. Designed for future teachers of foreign languages. *Prerequisite: Consent of instructor.*

## FRENCH

A major consists of eight courses numbered 10 or above, including at least one numbered 40 or above. Foreign Languages and Literatures 25 may be included in the major.

All majors who wish to be certified for teaching must pass courses 23, 31, 38, and at least two courses numbered 40 or above. A language proficiency test is required of these students during their senior year.

### 1-2 ELEMENTARY

Aim of course is to acquire the fundamentals of the language with a view to using them. Regular practice in speaking, understanding, and reading.

### 10-11 INTERMEDIATE

Review and development of fundamentals of the language for immediate use in speaking, understanding, and reading with a view to building confidence in self-expression. *Prerequisite: French 2 or equivalent.*

### 20 CONVERSATION

Designed to develop conversational fluency and comprehension through small group discussions focusing on topics from readings in modern French culture, such as French social attitudes and French-American cultural differences. Some attention to grammar and writing. *Prerequisite: French 11 or equivalent.*

### 23 INTRODUCTION TO LITERARY STUDIES

Studies in French literature, with emphasis on critical reading and interpretation. Discussions, lectures, oral *exposés*, papers. *Prerequisite: French 20 or equivalent.*

### 28 MODERN FRANCE

A course designed to familiarize students with political and social structures and cultural attitudes in contemporary French society. Materials studied may include such documents as newspaper articles, interviews, and sociological surveys, and readings in history, religion, anthropology, and the arts. Some attention to the changing educational system and the family and to events and ideas which have shaped French society. May include some comparative study of France and the United States.

*English Section:* Not applicable toward satisfying Foreign Language distribution requirement. *Prerequisite: None.*

*French Section:* Offers readings, papers, and interviews in French for students with sufficient language skill. Can be applied toward Foreign Language distribution requirement. *Prerequisite: French 10 or equivalent competency as determined by the department.*

### 31 FRENCH GRAMMATICAL STRUCTURE

Study of complex grammatical rules and their practical application in speaking and writing. *Recommended for all majors.*

### 41 FRENCH LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE

A study of selected works from *La Chanson de Roland* to Montaigne. *Prerequisite: French 23 or consent of instructor. Alternate years.*

### 43 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY

A study of major texts of the period: *préciosité*, the origins and theories of French classicism, Corneille, Pascal, Descartes. Classical tragedy and comedy: Racine, Molière. La Fontaine, Mme. de La Fayette, La Bruyère. *Prerequisite: French 23 or consent of instructor. Alternate years.*

### 45 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY

The literary expression of ideas: Montesquieu, Voltaire, Rousseau, and the Encyclopedists. *Prerequisite: French 23 or consent of instructor. Alternate years.*

### 47 FRENCH LITERATURE OF THE NINETEENTH CENTURY

The dimensions of the Romantic sensibility: Musset, Hugo, Vigny, Balzac, Stendhal. Realism and Naturalism in the novels of Flaubert and Zola. Reaction in the poetry of Baudelaire, Rimbaud, Verlaine, and Mallarmé. *Prerequisite: French 23 or consent of instructor. Alternate years.*

48 MODERN FRENCH THEATRE

Major trends in French drama from the turn of the century to Existentialism and the Theatre of the Absurd. Giraudoux, Anouilh, Sartre, Camus, Beckett, Ionesco, Genet, Adamov, and others. *Prerequisite: French 23 or consent of instructor. Alternate Years.*

49 FRENCH LITERATURE OF THE TWENTIETH CENTURY

Representative poets and novelists of modern France. Readings selected from the works of authors such as Proust, Gide, Aragon, Giono, Mauriac, Celine, Malraux, Saint-Exupery, Camus, the "new novelists" (Robbe-Grillet, Butor, Sarraute, Le Clezio), and the poetry of Apollinaire, Valery, the Surrealists (Breton, Reverdy, Eluard, Char), Saint-John Perse, Supervielle, Prevert, and others. Some attention to works of French-speaking African writers. *Prerequisite: French 23 or consent of instructor. Alternate years.*

## GERMAN

A major consists of eight courses numbered 10 or above, one of which may be Foreign Languages and Literatures 25.

All majors who wish to be certified for teaching must pass courses 31, 33, 34, and 38. A language proficiency test is required of these students during their senior year.

1-2 ELEMENTARY

Aim of course is to acquire the fundamentals of the language with a view to using them. Regular practice in speaking, understanding, and reading.

10-11 INTERMEDIATE

Review and development of fundamentals of the language for immediate use in speaking, understanding, and reading with a view to building confidence in self-expression. *Prerequisite: German 2 or equivalent.*

20 CONVERSATION

Designed to develop aural comprehension and conversational fluency. Readings and discussions on topics of contemporary society in Germany, Switzerland, and Austria. Some attention to grammar and writing. *Prerequisite: German 11 or equivalent.*

31 GERMAN GRAMMATICAL STRUCTURE

Study of intonation, complex grammatical rules and their practical application, stylistics, and a brief survey of the development of the language. *Recommended for all majors.*

33 SURVEY OF GERMAN LITERATURE AND CIVILIZATION

Selected literature of the Old High and Middle High German periods, of the late Middle Ages and Baroque. *Prerequisite: German 20 or consent of instructor.*

34 SURVEY OF GERMAN LITERATURE AND CIVILIZATION

Representative masterpieces of New High German literature beginning with the era of the Enlightenment. *Prerequisite: German 20 or consent of instructor.*

40 GOETHE

A study of the life and works of Goethe. Goethe's significance in the Classical period and later. Readings in the major works. *Prerequisite: German 33 or 34 or consent of instructor.*

41 CLASSICAL GERMAN DRAMA

The development of *das klassische Drama* with emphasis on works of Lessing, Goethe and Schiller. *Prerequisite: German 20.*



42 MODERN GERMAN DRAMA

The emergence of modern Drama commencing with Buchner and leading to Brecht. *Prerequisite: German 20.*

43 THE NOVELLE

The German Novelle as a genre relating to various literary periods. *Prerequisite: German 20.*

45 GERMAN POETRY

A study of selected poets or the poetry of various literary periods. *Prerequisite: German 33 or 34 or consent of instructor.*

47 MODERN GERMAN LITERATURE

A study of the major movements and writers from Naturalism, Expressionism, and the postwar period. Hauptmann, Rilke, Mann, Hesse, Kaiser, and others. *Prerequisite: German 33 or 34 or consent of instructor.*

## GREEK

Greek is not offered as a major.

1-2 NEW TESTAMENT GRAMMAR AND READINGS

Fundamentals of New Testament Greek grammar and readings of selected passages of the Greek text. *Alternate years.*

11 THE GOSPEL ACCORDING TO ST. MARK

A critical reading of the Greek text with special attention to exegetical questions. *Alternate years.*

12 THE EPISTLE TO THE ROMANS

A critical reading of the Greek text with special attention being given to the theology of St. Paul. *Alternate years.*

## HEBREW

Hebrew is not offered as a major.

1-2 OLD TESTAMENT GRAMMAR AND READINGS

Fundamentals of Old Testament Hebrew grammar and readings of selected passages of the Hebrew text. *Alternate years.*

11-12 INTERMEDIATE OLD TESTAMENT HEBREW

A critical reading of the Old Testament Hebrew text with special attention to exegetical questions. The text read varies from year to year. *Alternate years.*

## RUSSIAN

A major consists of eight courses numbered 10 or above, one of which may be Foreign Languages and Literatures 25.

All majors who wish to be certified for teaching must pass courses 20-21, 33, 34, and 38. A language proficiency test is required of these students during their senior year.

1-2 ELEMENTARY

Aim of course is to acquire the fundamentals of the language with a view to using them. Regular practice in speaking, understanding, and reading.

10-11 INTERMEDIATE

Review and development of fundamentals of the language for immediate use in speaking, understanding, and reading with a view to building confidence in self-expression. *Prerequisite: Russian 2 or equivalent.*

## 86/FOREIGN LANGUAGES

### 20-21 ADVANCED

Designed to develop a high degree of aural comprehension and conversational fluency. Directed composition and readings. *Prerequisite: Russian 11 or equivalent.*

### 33 SURVEY OF RUSSIAN LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Russian literature, representative authors, and major socio-economic developments. The course deals with the literature through Dostoevski. *Required of all majors and open to students majoring in other departments after consultation with the instructor.*

### 34 SURVEY OF RUSSIAN LITERATURE AND CIVILIZATION

Designed to acquaint students with important periods of Russian literature, representative authors, and major socio-economic developments. The course starts with Tolstoy. *Required of all majors and open to students majoring in other departments after consultation with the instructor.*

### 43 RUSSIAN SHORT STORY

Study of historical development of the short story form in Russia. Lectures, reports, and class analysis.

### 47 SOVIET LITERATURE

Survey of major literary figures, movements, styles. Revolution and its impact on literature and writers. Revival of the psychological novel, short story, contemporary poetry.

### 48 READINGS IN MODERN RUSSIAN

Representative readings and translation of Soviet periodicals and selected texts in social sciences. Study of current political and social terminology, Soviet idioms.

## SPANISH

A major consists of eight courses numbered 10 or above, including at least one numbered 40 or above. Normally, Foreign Languages and Literatures 25 does not count toward the major.

All majors who wish to be certified for teaching must pass courses 31, 38, and one from 33, 34, or 35. A language proficiency test is required of these students during their senior year.

### 1-2 ELEMENTARY

Aim of course is to acquire the fundamentals of the language with a view to using them. Regular practice in speaking, understanding, and reading.

### 10-11 INTERMEDIATE

Review and development of fundamentals of the language for immediate use in speaking, understanding, and reading with a view to building confidence in self-expression. *Prerequisite: Spanish 2 or equivalent.*

### 20 ADVANCED

The purpose of this course is to improve the student's ability in spontaneous conversation, focusing on everyday activities and matters of current concern as suggested in readings from Latin American and peninsular sources. Vocabulary building is stressed. *Prerequisite: Spanish 11 or equivalent.*

### 31 SPANISH GRAMMATICAL STRUCTURE

Study of intonation, complex grammatical rules and their practical application, and a brief survey of the development of the language. *Recommended for all majors.*

### 33 SURVEY OF SPANISH LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish literature, representative authors, and major socio-economic developments. The course deals with the literature from the beginning through the 17th century. *Open to students majoring in other departments after consultation with instructor. Alternate years.*

## HISTORY/87

### 34 SURVEY OF SPANISH LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish literature, representative authors, and major socio-economic developments. The course deals with the literature from the 18th century to the present. *Open to students majoring in other departments after consultation with the instructor. Alternate years.*

### 35 SURVEY OF SPANISH AMERICAN LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish-American literature, representative authors, and major socio-economic developments. The course deals with the literature, especially the essay and poetry, from 16th. century to present. *Prerequisite: Consent of instructor. Alternate years.*

### 44 SPANISH LITERATURE OF THE GOLDEN AGE

A study of representative works and principal literary figures in the poetry, prose, and drama of the 16th. and 17th. centuries, from Fernando de Rojas to Calderon. *Prerequisite: Consent of instructor. Alternate years.*

### 47 19TH CENTURY NOVEL

Regionalism, realism, and naturalism in prose fiction, with emphasis on the works of Galdos. *Prerequisite: Consent of instructor. Alternate years.*

### 48 THE GENERATION OF '98

Principal literary figures of the early 20th century: Unamuno, Azorín, Valle Inclán, Baroja, Benavente, Machado, Jimenez, etc. *Prerequisite: Consent of instructor. Alternate years.*

### 49 SPANISH AMERICAN NOVEL

Twentieth Century novelists from Azuela to García Márquez. *Prerequisite: Consent of instructor. Alternate years.*

## HISTORY

Professor: Priest (*Chairman*)  
Assistant Professor: Larson, Piper

A major consists of ten courses including History 10 and 11. Religion 26 and/or 27 may be counted toward a major. History majors seeking secondary certification are required to take History 12 and 13. In addition to the courses listed below, special courses and individual studies are available—recent topics include the American Indian, European Left, Peace Movements, Violence in America, and Tudor-Stuart England.

### 10 MODERN WORLD (1500-1815)

An examination of the political, social, cultural and intellectual history of Europe and its relations with other areas of the world from 1500 to 1815.

### 11 MODERN WORLD (1815-Present)

An examination of the political, social, cultural and intellectual history of Europe and its relations with other areas of the world from 1815 to the present.

### 12 UNITED STATES HISTORY 1763-1877

A study of the men, measures, and movements which have been significant in the development of the United States between 1763 and 1877. Attention is paid to the problems of minority groups and to aspects of Pennsylvania history as well as to majority and national influences.

### 13 UNITED STATES HISTORY SINCE 1877

A study of the men, measures, and movements which have been significant in the development of the United States since 1877. Attention is paid to the problems of minority groups and to aspects of Pennsylvania history as well as to majority and national influences.

20 ANCIENT GREECE

A study of the origins of civilization in the ancient Near East, its diffusion to other areas, and the foundations of the western tradition in Greece. The political, social, and cultural experiences and the intellectual, literary, and aesthetic achievements of the Greeks will be examined. *Alternate years.*

21 THE ROMAN REPUBLIC AND EMPIRE

The emergence and expansion of the Roman state, its conquest of the Mediterranean, its experience as a republic, its transformation into the Empire, the Empire as a major factor in history. The role of Rome in the continuation and modification of the western tradition will be assessed and the character of Roman institutional and legal development will be examined. *Alternate years.*

22 MEDIEVAL EUROPE AND ITS NEIGHBORS

The history of Europe from the dissolution of the Roman Empire to the mid-fifteenth century. The course will deal with the growing estrangement of western Catholic Europe from Byzantium and Islam, culminating in the Crusades; the rise of the Islamic Empire and its later fragmentation; the development and growth of feudalism; the conflict of empire and papacy, and the rise of towns. *Alternate years.*

28 AFRO-AMERICAN HISTORY

A study of the experiences and participation of Afro-Americans in the United States. The course includes historical experiences such as slavery, abolition, reconstruction, and urbanization. It also raises the issue of the development and growth of white racism, and the effect of this racism on contemporary Afro-American social, intellectual, and political life.

30 TWENTIETH CENTURY EUROPE TO 1929

An intensive study of various aspects of the political, economic, social, and intellectual history of Europe from 1900 to 1919. Topics include the irrationalist movement, the causes of imperialism, the origins of the First World War, the Russian Revolution and establishment of the Soviet Regime, and the attempts at peacemaking after 1918. *Prerequisite: History 11 or consent of instructor. Alternate years.*

31 TWENTIETH CENTURY EUROPE SINCE 1929

An intensive study of various aspects of the political, economic, social, and intellectual history of Europe from 1929 to the present. Topics include the nature of fascism, development of Stalinist Russia, outbreak of World War II, origins of the Cold War, and the economic reconstruction and integration of Western Europe since 1945. *Prerequisite: History 11 or consent of instructor. Alternate years.*

32-33 CONFLICT IN WESTERN SOCIETY

An in-depth study of the role of international conflict in the shaping of the Western World and the efforts to eliminate or restrict its destructiveness. Following a brief survey of the evolving nature of warfare and society, the course will center on topics such as the rise of the concept of the balance of power, alliance politics, theories of deterrence, problems of peacemaking, efforts at disarmament, and the evolving nature of civil-military relations. *Prerequisite: History 10 and 11 or consent of instructor. Alternate years.*

34 AMERICAN FOREIGN RELATIONS

A study of the course of relations of the United States with foreign nations from independence through World War I. *Alternate years.*

35 AMERICAN FOREIGN RELATIONS

A detailed study of the formulation and application of American foreign policies since 1918. *Alternate years.*

37 COLONIAL AMERICA AND THE REVOLUTIONARY ERA

The establishment of British settlements on the American continent, their history as colonies, the causes and events of the American Revolution, the Critical Period following independence, and proposal and adoption of the United States Constitution. *Alternate years.*

## HISTORY/89

### 38 CIVIL WAR AND RECONSTRUCTION

The problems and events leading to war, the political and military history of the war, and the bitter aftermath to the Compromise of 1877. *Alternate years.*

### 40 HISTORY OF RENAISSANCE THOUGHT

A study of the classical, humanist, and scholastic elements involved in the development of the Renaissance outlook, views, and values, both in Italy and in Northern Europe. The various combination of circumstances which constitute the historical context of these intellectual developments will be noted. *Prerequisite: History 10 or consent of instructor. Alternate years.*

### 41 HISTORY OF REFORMATION THOUGHT

A study of the ideas and systems of ideas propounded prior to the Reformation but which are historically related to its inception and of the ideas and systems of ideas involved in the formation of the major Reformation Protestant traditions and in the Catholic Reformation. Included are the ideas of the humanists of the Reformation Era. *Prerequisite: History 10 or consent of instructor. Alternate years.*

### 42 U.S. SOCIAL AND INTELLECTUAL HISTORY TO 1865

A study of the social and intellectual experience of the United States from its colonial antecedence through reconstruction. Among the topics considered are Puritanism, Transcendentalism, community life and organization, education and social reform movements. *Prerequisite: 2 courses from History 12, 13, 28, or consent of instructor. Alternate years.*

### 43 U.S. SOCIAL AND INTELLECTUAL HISTORY SINCE 1865

A study of the social and intellectual experience of the United States from reconstruction to the present day. Among the topics considered are Social Darwinism, Pragmatism, community life and organization, education and social reform movements. *Prerequisite: 2 courses from History 12, 13, 28, or consent of instructor. Alternate years.*

### 44 FRENCH REVOLUTION AND NAPOLEON

An analysis of the political, social and intellectual background of the French Revolution, a survey of the course of revolutionary development, and an estimate of the results of the Napoleonic conquests and administration. *Prerequisite: History 10 or consent of instructor. Alternate years.*

### 45 INDUSTRIALIZATION AND URBANIZATION OF MODERN EUROPE

A study of the rise of industrialism and its impact on social, economic, and intellectual developments. *Prerequisites: History 10 and 11 or consent of instructor. Alternate years.*

### 46 TOPICS IN RUSSIAN HISTORY

Studies of various aspects of prerevolutionary Russia evolving around the theme of the failure of the Tsarist regime to successfully overcome the challenge of the modern world. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

### 47 TOPICS IN SOVIET HISTORY

Studies of various aspects of political, economic, social, and cultural history of the USSR since 1917. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

### 48 TOPICS IN TWENTIETH CENTURY UNITED STATES RELIGION

The study of historical and cultural developments in American society which relates to religion or are commonly called religious. This involves consideration of the institutional and intellectual development of several faith groups as well as discussion of certain problems. The problems include the persistence of religious bigotry and the changing modes of Church-State relationships. *Prerequisite: Consent of instructor. Alternate years.*

### 49 THE HIGH MIDDLE AGES

The flowering of a distinctive medieval civilization in the twelfth and thirteenth centuries. The political, social, economic, intellectual, ecclesiastical, literary, and aesthetic facets of this civilization will be studied in their relationship to each other. *Alternate years.*

# MATHEMATICS

Professor: Skeath (*Chairman*)  
Assistant Professors: Feldmann, Getchell, Henninger  
Instructors: Lambert, Sausman

A major consists of ten courses numbered 10 or above; Mathematics 18-19, 20, 34, and 35 and four other courses numbered above 20 must be included. Students seeking secondary certification in Mathematics are required to take Math 30 and 36 and are advised to take Philosophy 26. All majors are advised to elect Philosophy 24 and 36. In addition to the courses listed below, special courses are occasionally available - recent topics include: Optimization Theory, Theory of Numbers, Lattice Theory, History of Mathematics, Graph Theory, Four-Color Problem, and Applied Probability.

## 1 INTRODUCTION TO MATHEMATICS

An introduction to the following mathematics topics: Set theory, probability, analytic geometry, calculus, computer science. Since these subjects are explored in greater depth in later courses, taking this course may help a student in selecting additional mathematics courses. *Open only to freshmen or consent of the instructor.*

## 3 INTRODUCTION TO CALCULUS

An intuitive approach to the calculus concepts with applications to business, biology, and social science problems. *Credit will not be given in addition to Math 18.*

## 6 ELEMENTARY GEOMETRY

All aspects of Euclidean Geometry which are needed by elementary school teachers are covered in a modern, but informal, fashion. Subjects include: geometric objects, measurement, symmetry, similarity, parallels and coordinate geometry. *Offered May Term only.*

## 7 MATHEMATICS FOR ELEMENTARY TEACHERS

A study of content, objectives, materials, and methods of instruction. Topics include a development of the real number system and its various subsystems, nondecimal arithmetic, geometry, probability, and algorithms for the four basic operations. Observations of superior teachers in elementary schools of the Greater Williamsport Area. *Co-requisite: Education 20 or application to the elementary education program.*

## 10-11 ANALYTIC GEOMETRY AND CALCULUS III

Study of graphs of functions, properties of conic sections, polar coordinates, ideas of limits and continuity, differentiation and integration of algebraic and transcendental functions, vectors. *Prerequisite: Mathematics I or equivalent.*

## 12 FINITE MATHEMATICS FOR DECISION MAKING

Matrix solution of systems of linear equations, linear programming, theory of games, Markov chains.

## 13 INTRODUCTION TO STATISTICS

Describing distributions of measurements, probability and random variables, binomial and normal probability distributions, statistical inference from small samples, linear regression and correlation, analysis of enumerative data. Includes laboratory experience with the desk calculator.

## 15 COMPUTER SCIENCE

Study of mathematics relevant to computing. A survey of machine and symbolic programming. Introduction to FORTRAN IV programming. Includes laboratory experience on an IBM 1130.

## MATHEMATICS/91

### 17 PRECALCULUS MATHEMATICS

The study of logarithmic, exponential, trigonometric, polynomial and rational functions, their graphs and elementary properties.

### 18-19 ANALYTIC GEOMETRY AND CALCULUS I-II

The study of the concepts of limits and continuity, differentiation and integration of algebraic and transcendental functions, maximum and minimum, related rates, polar coordinates, vectors, solid geometry, convergent and divergent series, partial differentiation, multiple integrals. *Prerequisite: Math 17 or equivalent.*

### 20 CALCULUS III AND MATRIX ALGEBRA

Further work in convergent and divergent series, matrix algebra, and selected topics. *Prerequisite: Math 19.*

### 21 DIFFERENTIAL EQUATIONS

Methods of solving differential equations, including Laplace transforms, differential operators and variation of parameters. *Prerequisite: Mathematics 20.*

### 24 FOUNDATIONS OF MATHEMATICS

Topics include the nature of mathematical systems, essentials of logical reasoning, axiomatic foundation of set theory, and transfinite induction. *Prerequisite: Mathematics 18 or consent of instructor.*

### 30 TOPICS IN GEOMETRY

An axiomatic treatment of Euclidean geometry, and an introduction to related geometries. *Prerequisite: Mathematics 18. Alternate years.*

### 31 INTRODUCTION TO NUMERICAL ANALYSIS

Study and analysis of tabulated data leading to interpolation, numerical solution of equations and systems of equations, numerical integration. *Corequisite: Mathematics 21. Prerequisite: Mathematics 15. Alternate years.*

### 32-33 MATHEMATIC STATISTICS I-II

A study of probability, discrete and continuous random variables, expected values and moments; sampling, point estimation, sampling distributions, interval estimation, tests of hypotheses, regression and linear hypotheses, experimental design models. *Prerequisite: Mathematics 20. Alternate years.*

### 34 ABSTRACT ALGEBRA

An introduction to groups, rings, and fields. *Prerequisite: Mathematics 20 or 24.*

### 35 LINEAR ALGEBRA

An introduction to vector spaces and linear transformations. *Prerequisite: Mathematics 20 or 24.*

### 36 CONCEPTS OF MATHEMATICS IN SECONDARY EDUCATION

A course designed for mathematics majors who are planning to teach at the secondary level. Emphasis will be placed on the mathematics that forms the foundation of secondary mathematics. Ideas will be presented to familiarize the student with various curriculum proposals, to provide for innovation within the existing curriculum and to expand the boundaries of the existing curriculum. *Prerequisite: Open only to junior and senior math majors enrolled in the secondary education program.*

### 40 APPLIED ANALYSIS

Topics selected from vector analysis, tensors, matrices, partial differential equations and the calculus of variations. *Prerequisite: Mathematics 21. Alternate years.*

### 41 INTRODUCTION TO TOPOLOGY

An introduction to metric spaces, abstract topological spaces, mappings, separation, completeness, compactness, and connectedness. *Prerequisite: Mathematics 20. Alternate years.*

### 42 REAL ANALYSIS

Construction of the real number system. A rigorous study of infinite series and continuity, differentiation and integration of real valued functions. *Prerequisite: Mathematics 20. Alternate years.*

### 43 COMPLEX ANALYSIS

Introduction to the complex number system, functions of a complex variable, transformations, analytic functions, and complex integration. *Prerequisite: Mathematics 20. Alternate years.*

## MUSIC

Professors: Morgan (*Chairman*), McIver  
Associate Professors: Russell, Sheaffer

A major consists of eight courses numbered 10 and above. Each major must complete one-half unit of applied music each semester.

### 1-2 INTRODUCTION TO MUSIC

A basic course designed to acquaint the student with the nature of music. Extensive guided listening is used to help the student to become perceptive.

### 10-11 MUSIC THEORY I AND II

An integrated course in musicianship including sight singing, ear training, written and keyboard harmony.

### 20-21 MUSIC THEORY III AND IV

A continuation of the integrated course moving toward newer uses of musical materials. *Prerequisite: Music 11. Alternate years.*

### 28 COUNTERPOINT

A study of the five species in two, three, and four-part writing. *Alternate years.*

### 29 ORCHESTRATION

A study of modern orchestral instruments, and examination of their use by the great masters with practical problems of instrumentation. *Alternate years.*

### 30 COMPOSITION

Creative writing in smaller vocal and instrumental forms. The college musical organizations serve to make performance possible. *Alternate years.*

### 31 CONDUCTING

A study of the fundamentals of conducting with frequent opportunity for practical experience. *Alternate years.*

### 35 MUSIC HISTORY AND LITERATURE TO J.S. BACH

A survey of the history of music from antiquity to the beginning of the 18th century with emphasis on nonmensural chant, the beginnings of harmony and counterpoint and their development. *Prerequisite: Music 2. Alternate years.*

### 36 MUSIC HISTORY AND LITERATURE OF THE 18TH CENTURY

Emphasizing the achievements of the late Baroque and largely concerned with the lives and works of Bach, Handel, Haydn, and Mozart. *Prerequisite: Music 2. Alternate years.*

### 45 MUSIC HISTORY AND LITERATURE OF THE 19TH CENTURY

A survey of the music of the 19th century, including study of Beethoven, Chopin, Schubert, Brahms, Wagner, and Debussy and their principal media and forms. *Prerequisite: Music 2. Alternate years.*

### 46 MUSIC HISTORY AND LITERATURE OF THE 20TH CENTURY

The survey of music history culminates with the study of the works of such moderns as Stravinsky, Bartok, Prokofief, Shostakovich, Barber, Copland, Menotti, and Stockhausen. Attention is given to atonality and expressionism. *Prerequisite: Music 2. Alternate years.*



## APPLIED MUSIC

The study of performance in Piano, Voice, Organ, Strings, Brass, Woodwinds, and Percussion is designed to develop sound technique and a knowledge of the appropriate literature. Student recitals offer opportunity to gain experience in performance. Music majors or other qualified students in performance may present formal recitals.

Credit for Applied Music courses (Music 60 through 69) is earned on a fractional basis—SEE PAGE 58 for the fractional values involved. An Applied Music Course (60 series) should *NOT* be substituted for an academic course in a student's schedule but should be *IN ADDITION TO* the normal four academic courses taken per semester.

### Private Instruction in:

60 Piano	62 Strings	64 Brass	66 Percussion
61 Voice	63 Organ	65 Woodwinds	

### 67 PIANO ENSEMBLE

A course designed to explore piano literature for four and eight hands.

### 68 VOCAL ENSEMBLE

A course designed to enable any student possessing at least average vocal talent to study choral technique. Emphasis is placed upon tone production, diction and phrasing.

### 69 INSTRUMENTAL ENSEMBLE

A course directed toward developing fine ensemble music through a study of group instrumental procedures.



# PHILOSOPHY

Assistant Professors: Herring (*Chairman*),  
Griffith, Schoeman, Whelan

The study of philosophy develops a critical understanding of the basic concepts and presuppositions around which we organize our thought in science, religion, education, morality, the arts, and other human enterprises. A major in philosophy, together with appropriate related courses, can provide an excellent preparation for policy-making positions of many kinds, for graduate study in several fields, and for careers in education, law, and the ministry. The major consists of eight courses, numbered 10 or above, including Philosophy 30-31, ordinarily taken in the Junior year, and Philosophy 45, ordinarily taken in the Senior year. In addition to the courses listed below, special courses and individual studies are available—recent topics include existentialism, Plato's ethics, philosophy in literature, metaethics, Schopenhauer, philosophy of language, Nietzsche, and moral education.

## 5 GENERAL LOGIC

A general introduction to topics in logic and their application to practical reasoning, with primary emphasis on fallacies, inductive reasoning, and scientific method.

## 10 INTRODUCTION TO PHILOSOPHICAL PROBLEMS

An inquiry, carried on mainly by discussions and short papers, into a few selected philosophical problems. The problems vary with the instructor; typical examples are: What is a scientific explanation? Are standards of conduct relative? Is talk about God meaningful? Readings in Philosophical classics and contemporary books and articles.

## 20 ETHICS

An inquiry focusing on the question, "What should one do?" and dealing with the content and rationale of the proposals of relativists, egoists, utilitarians, and others about how to decide. *Prerequisite: One course in philosophy.*

## 21 AESTHETICS

A philosophical examination of the nature of art and aesthetic value and a consideration of some of the philosophical problems relating to various art-forms: painting, poetry, theatre, music, etc. Some typical issues discussed are: What sort of reasons, if any, are appropriate in art criticism? Are the arts kinds of language? Is censorship in the arts ever justifiable? *Prerequisite: One course in philosophy, or Junior or Senior major in Art, English, Foreign Language, Music, or Theatre.*

## 22 SOCIAL AND POLITICAL PHILOSOPHY

Of central interest is the question of the relation between human nature and the proper social and political order. Emphasis is placed on an examination of the logic of social and political thought and on the analysis of key concepts such as power, authority, freedom, law, rights, justice, and social and political obligation. *Prerequisite: One course in philosophy, or Junior or Senior major in Political Science or Sociology.*

## PHILOSOPHY/95

### 24 PHILOSOPHY OF SCIENCE

A consideration of philosophically important conceptual problems related primarily to the methodology of science, including such topics as the nature of scientific laws and theories, the character of explanation, the import of prediction, the existence of "non-observable" theoretical entities such as electrons and genes, the problem of justifying induction, and various puzzles associated with probability. *Prerequisite: One course in philosophy, or Junior or Senior major in Biology, Chemistry, Physics, Psychology, or Sociology.*

### 25 PHILOSOPHY OF RELIGION

A philosophical examination of religion. Included are such topics as the nature of religious discourse, arguments for and against the existence of God, and the relation between religion and science. Readings from classical and contemporary sources. *Prerequisite: One course in philosophy, or Junior or Senior major in Religion.*

### 26 PHILOSOPHY OF EDUCATION

An examination of the basic concepts involved in thought about education, and a consideration of the various methods for justifying educational proposals. Typical of the issues discussed are these: Are education and indoctrination different? Is there a role for authority in education? Are education and schooling compatible? What do we need to learn? *Prerequisite: One course in philosophy, or Junior or Senior standing in Education.*

### 29 PHILOSOPHY OF HISTORY

An examination of the concept of history, dealing with the logic of historical inquiry and with speculative treatments of the course of history as a whole. The primary purpose is to provide a philosophical analysis of the descriptive language and explanatory reasoning of historians. In addition, some attention will be paid to the values and limitations of speculative and general interpretations of history, for example: those of Hegel and Marx. *Prerequisite: One course in philosophy, or Junior or Senior major in history. Alternate years.*

### 30-31 HISTORY OF PHILOSOPHY

A philosophical study of the history of Western philosophy. The primary concern is to understand the fundamental theories of the great philosophers, including: Plato, Aristotle, St. Thomas Aquinas, Descartes, Locke, Hume, Kant, and more recent thinkers. A second concern is to see the relation of these theories to our Western intellectual traditions. Central to the course are readings in philosophical classics. *Prerequisite: One course in philosophy; not open to Freshmen and Sophomores.*

### 36 SYMBOLIC LOGIC

A study of modern symbolic logic, including truth-functional logic, the logic of propositional functions, and deductive systems. Attention is also given to various topics in the philosophy of the formal sciences.

### 38 METAPHYSICS

A critical examination of the various answers philosophers have given to the question "What is real?" Typical of such theories are naturalism, materialism, and idealism. *Prerequisite: One course in philosophy.*

### 45 EPISTEMOLOGY

An inquiry, carried on primarily by discussions and short papers, into contemporary philosophical problems and theories about knowing, perceiving, truth, and meaning. The nature of philosophical thought is examined. *Prerequisite: Two courses in philosophy.*

### 49 DEPARTMENTAL SEMINAR

An investigation, carried on by discussions and papers, into one philosophical problem, text, philosopher, or movement. A different topic is selected each semester; recent topics include Sidgwick's ethics, religious language, Kierkegaard, legal punishment, and Wittgenstein. This seminar is designed to provide Junior and Senior philosophy majors and other qualified students with more than the usual opportunity for concentrated and cooperative inquiry. *Prerequisite: Consent of the instructor. This seminar may be repeated for credit.*

## PHYSICAL EDUCATION

Associate Professor: Busey  
Assistant Professors: Burch (*Chairman*)  
Miller, Vargo, Whitehill, Phillips

### 1 PHYSICAL EDUCATION

Coeducational physical education classes. Basic instructions in fundamentals, knowledge, and appreciation of sports that include swimming, tennis, bowling, volleyball, archery, field hockey, soccer, golf, badminton, modern dance, skiing, elementary games (for elementary teachers), toneastics, physical fitness, and other activities. Beginning swimming is required for all non-swimmers. Students may select any activity offered. A reasonable degree of proficiency is required of the student in the activities in which he chooses to participate. Emphasis is on the potential use of activities as recreational and leisure-time interests. Two semesters of physical education (two hours per week) are required.

## PHYSICS

Professor: Fineman (*Chairman*)  
Associate Professor: W. Smith  
Assistant Professor: Jamison  
Teaching Fellow: Erickson

A major consists of eight courses, of which six must be numbered above 20. Physics 23, 29, 33, 48; Mathematics 18-19, 20, 21; and one year of chemistry are required. Students planning to enter graduate school will find it advisable to have a reading knowledge of a foreign language and to know Fortran programming. All junior and senior physics majors are required to attend and to participate in the weekly physics colloquia in preparation for physics 48.

### 3-4 PHYSICAL SCIENCE

This course will present and explain some of the fundamental principles of the physical sciences: Physics, Astronomy, Earth Science, and Chemistry—in such a manner that liberal arts students will realize that science is not only comprehensible but exciting. The emphasis of the course will be conceptional rather than mathematical. It will meet the college's natural science distribution requirement. *Three lectures, one recitation, and two-hour laboratory session. Prerequisite: Mathematics 17 or equivalent.*

### 5 ASTRONOMY

This course will cover some of the basic physical principles and then attempt to show how astronomers, through observation, classification, and careful analysis, arrive at current views of the universe. *Prerequisite: Mathematics 17 or equivalent.*

### 8-9 ELEMENTS OF PHYSICS

A non-calculus introductory course in which mechanics, heat, sound, electricity, magnetism, and optics are presented. Some recent developments in physics will also be presented. *Three lectures, one recitation and one three-hour laboratory session. Prerequisite: Mathematics 17 or equivalent.*

10-11 GENERAL PHYSICS

An introductory course in physics for science and engineering students, in which the basic concepts of mechanics, thermodynamics, electricity, magnetism and light are presented using calculus. *Three lectures, one recitation and one three-hour laboratory session. Corequisite: Mathematics 18 or Mathematics 3.*

21 THE CONCEPTS OF MODERN PHYSICS

The purpose of this elective course is to provide Arts and Humanities majors, who have a minimum background in mathematics and physics, to satisfy their curiosity about the nature of the physical world without being concerned about doing a lot of problem solving. The course will include discussions in an historical and philosophical framework of the mechanical concepts (mass, space, time, force, momentum, and energy), of a few topics in relativity and of the discovery, detection and use of some of the elementary particles of physics and their impact on contemporary physical thought. *Four hours lecture-discussion. Prerequisite: Mathematics 17 or equivalent.*

23 MODERN PHYSICS

The basic concepts of Modern Physics are examined; the wave-particle duality and the fundamental ideas of quantum mechanics; atomic structure; x-ray spectra; interaction of radiation and matter; nuclear models and nuclear structure, radioactivity, nuclear reactions; molecular and solid state physics. Special relativity. This course is the foundation for a systematic study of quantum mechanics. *Three lectures and one four-hour laboratory. Prerequisite: Physics 11 or consent of instructor.*

29-30 ELECTRICITY AND MAGNETISM

This course will cover the electrostatic field, electric potential, magnetic field and the electrical and magnetic properties of matter. Maxwell's equations and some of their applications to electromagnetic radiation will be taken up. The laboratory will include experiments on basic electronics as well as classical electricity and magnetism experiments. *Three lecture and two two-hour laboratory sessions. Prerequisite: Physics 23; Co-requisite: Mathematics 21 or consent of instructor.*

31 OPTICS AND WAVES

Following a presentation of geometrical optics, wave motion, inference; Fresnel and Fraunhofer diffraction, gratings; the velocity of light, absorption and scattering, and polarization of light will be covered. *Three hours lecture and one four-hour laboratory session. Prerequisite: Physics 11 or consent of instructor. Alternate years.*

33-34 MECHANICS

The study of the motion of a single particle, a system of particles, rigid bodies and an introduction to the mechanics of continuous media will be covered. Topics which are needed for understanding quantum mechanics and special theory of relativity such as moving reference systems. Lagrange's equations and theory of vibrations will be examined. *Three lectures, and a recitation or a laboratory. Prerequisite: Physics 11; Mathematics 21 or consent of instructor.*

35 THERMAL PHYSICS

The laws of thermodynamics and their applications to some physical, chemical, electric and magnetic problems are presented. The properties of bulk matter will also be treated from a microscopic viewpoint, i.e., the kinetic theory of gases and statistical mechanics. A comparison of Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein statistics is made. *Four hours of lecture and recitation. Prerequisite: Physics 33 or consent of instructor.*

39 INTRODUCTION TO QUANTUM MECHANICS

After presenting the origin, basic concepts and formulation of Quantum Mechanics with emphasis on its physical meaning the free particle, simple harmonic oscillator and central force problems will be investigated. Both time independent and time dependent perturbation theory will be covered. The elegant operator formalism of quantum mechanics will conclude the course. *Four hours of lecture and recitation. Prerequisites: Mathematics 21; either Chemistry 31 or Physics 23, and consent of instructor.*

41 ELEMENTS OF NUCLEAR PHYSICS

With the tools obtained after a review of nuclear concepts and some quantum mechanics, the course will cover interactions of nuclear radiations with matter, radioactive decay and nuclear reactions. The understanding of nuclear forces will be emphasized, particularly from scattering studies of two-nucleon systems. *Three lectures and four-hour laboratory. Prerequisite: Physics 39; or Physics 23 and consent of instructor.*

42 SOLID STATE PHYSICS

Introductory treatment of crystallography, lattice dynamics, electrons in metal, properties of semiconductors and dielectric and magnetic properties of solids will be given. *Three lectures and four-hour laboratory. Prerequisite: Physics 39; or Physics 23 and consent of instructor.*

48 PHYSICS COLLOQUIA (SENIOR COURSE)

In this course, professionally active physicists or scientists in closely allied fields present lectures on their own research or professional activities. In addition, the student will do a literature review and present his results at one of the colloquia. *Prerequisite: Three semesters of the non-credit Physics Colloquia 00 taken during their junior and senior years.*

## POLITICAL SCIENCE

Professor: Jose

Associate Professor: Giglio (*Chairman*)

Assistant Professor: Roskin

Instructor: Knepp

The major is designed to provide a systematic understanding of government and politics at the international, national, state, and local levels. Majors are encouraged to develop their faculties to make independent, objective analysis which can be applied to the broad spectrum of the social sciences.

Although the political science major is not designed as a vocational major, students with such training may go directly into government service, journalism, teaching, or private administrative agencies. A political science major can provide the base for the study of law, or for graduate studies leading to administrative work in federal, state, or local government, international organizations, or college teaching. Students seeking certification to teach secondary school social studies may major in political science but should consult their advisers and the education department. *Washington National* and *International Semesters* are sponsored at The American University and a *United Nations Semester* at Drew University.

A major consists of eight political science courses, including Political Science 5, and at least one course in each of the five areas (A to E) below. To encourage familiarity with other social sciences, at least two courses must be completed from the following: Business 35 and 36 (recommended for pre-law); Economics 10/11, 32, 45; History 34, 35, 36; Philosophy 22, Sociology 26.

15 INTRODUCTION TO POLITICS

The behavior and misbehavior of the political animal, man. Why he forms political communities, how he may improve them, and how he may destroy them. *Required of all political science majors; open to a limited number of other interested students.*

A. AMERICAN GOVERNMENT

10 GOVERNMENT AND POLITICS IN  
THE UNITED STATES

An introduction to American national government which emphasizes both structural-functional analysis and policy-making processes. In addition to the legislative, executive, and judicial branches of government, attention will be given to political parties and interest groups, elections and voting behavior, and constitutional rights. Recommended to all Social Science Education majors and to those students who have had inadequate or insufficient preparation in American government.

11 STATE AND LOCAL GOVERNMENT

An examination of the general principles, major problems, and political processes of the states and their subdivisions, together with their role in a federal type of government.

30 THE AMERICAN CONSTITUTIONAL SYSTEM

An analysis of the Supreme Court in the American system of government with some attention paid to judicial decision-making. Topics include: judicial review, federalism, constitutional limits on legislative and executive powers, elections and representation.

31 CIVIL RIGHTS AND LIBERTIES

What are our rights and liberties as Americans? What should they be? A frank discussion of the nature and scope of the constitutional guarantees, First Amendment rights, the rights of criminal suspects and defendants, racial equality, and equal protection of the laws. Students will read and brief the more important Supreme Court decisions.

33 PUBLIC ADMINISTRATION AND PLANNING

A systematic description, analysis, and evaluation of the institutional foundations of the American system of public administration, with special attention to structure, personnel, and control. *Alternate years.*

B. AMERICAN POLITICS

22 POLITICAL PARTIES AND INTEREST GROUPS

An examination of the history, organization, functions, and methods of American political parties. Special attention is devoted to the role of organized interest groups in the political process.

23 AMERICAN PRESIDENCY

A study of the office and powers of the President with analysis of his major roles as chief administrator, legislator, political leader, foreign policy maker, and commander-in-chief. Special attention is given to those Presidents who led the nation boldly.

24 THE LEGISLATIVE PROCESS

A study of the role of the legislature in the framework of the national and state governments. Consideration of the influence of the parties, pressure groups, public opinion, constituencies, the "committee system", the "administration" and the constitution in the lawmaking process. *Alternate years.*

32 THE POLITICS OF CITIES AND SUBURBS

An examination of the history, legal basis, power, forms, services, and problems of the cities and their suburbs, with special reference to current experiments in the solution of the problems of metropolitan areas.

C. POLITICAL THEORY

35 LAW AND SOCIETY

An examination into the nature, sources, functions, and limits of law as an instrument of political and social control. Included for discussion are legal problems pertaining to the family, crime, deviant behavior, poverty, and minority groups. *Alternate years.*

## 100/POLITICAL SCIENCE

### 46 CONTEMPORARY POLITICAL IDEOLOGIES

The growth, development and current status of liberalism, conservatism, nationalism, socialism, communism and fascism. *Alternate years.*

### 47 THE AMERICAN POLITICAL TRADITION

An examination of the significant ideas which have shaped the American political tradition from their European origins to the present, with emphasis on the influence of these ideas in the development of American democracy. Special attention will be paid to an analysis of contemporary ideological movements: Black Power, New Left, and Radical Feminism. *Alternate years.*

## D. COMPARATIVE POLITICS

### 20 COMPARATIVE POLITICS: ADVANCED SYSTEMS

A cross-national study of highly developed states, with emphasis on Western Europe and Japan, compared to the U.S. system.

### 21 COMPARATIVE POLITICS: DEVELOPING SYSTEMS

The causes and possible cures for socio-political backwardness in Asia, Africa, and Latin America.

### 36 THE SOVIET POLITICAL SYSTEM

The political theory and practice of the Soviet Union, including some comparison with other Communist states such as China and Yugoslavia. *Alternate years.*

## E. INTERNATIONAL RELATIONS

### 34 WORLD POLITICS

Why is there war? An introduction to international relations with emphasis on the varieties of conflicts which may grow into war.

### 37 COMMUNIST STRATEGIES AND TACTICS

The foreign policies of the various Communist states; the breakup of monolithic communism into national-interest communism as practiced by the Soviet Union, China, Romania, and Yugoslavia. *Alternate years.*

### 39 AMERICAN FOREIGN POLICY

The U.S. role in the world in geographic, strategic, historical, and ideological perspectives, plus an examination of the domestic forces shaping U.S. policy. *Alternate years.*

### 43 INTERNATIONAL ORGANIZATION

An examination of the structure and function of the League of Nations and particularly the United Nations with emphasis on activities related to the maintenance of international peace and security. *Alternate years.*

## PSYCHOLOGY

Associate Professor: Loomis (*Chairman*), Hancock

Assistant Professors: Brittain, O'Brien

A major consists of Psychology 10, 20, 21, 22, and four other psychology courses. Mathematics 13 is also required. In addition to the departmental requirements, majors are urged to include courses in Animal Physiology, Sociology, and the Mathematics option of the distribution requirement.

### 10 INTRODUCTORY PSYCHOLOGY

An introduction to the empirical study of human and other animal behavior. Areas considered may include: learning, personality, social, physiological, sensory, cognition and developmental.



## PSYCHOLOGY/101

### 15 ORGANIZATIONAL AND INDUSTRIAL PSYCHOLOGY

The application of the principles and methods of psychology to selected organizational and industrial situations. *Prerequisite: Psychology 10.*

### 16 ABNORMAL PSYCHOLOGY

An introduction to the patterns of deviant behavior with emphasis on cause, function, and treatment. The various models for the conceptualization of abnormal behavior are critically examined. *Prerequisite: Psychology 10.*

### 20 SENSORY EXPERIMENTAL PSYCHOLOGY

The examination of psychophysical methodology and basic neurophysiological methods as they are applied to the understanding of sensory processes. *Prerequisite: Psychology 10; Mathematics 13.*

### 21 LEARNING EXPERIMENTAL PSYCHOLOGY

Learning processes. The examination of the basic methods and principles of animal and human learning. *Prerequisite: Psychology 10; Mathematics 13.*

### 22 PERSONALITY THEORY

Theories of Personality. A comparison of different theoretical views on the development and functioning of personality. Examined in detail are three general viewpoints of personality; psychoanalytic, stimulus-response (behavioristic), and phenomenological. *Prerequisite: Psychology 10.*

### 30 SOCIAL PSYCHOLOGY

An examination of behavior in social contexts including motivation, preception, group processes and leadership, attitudes, and methods of research. *Prerequisite: Psychology 10.*

### 31 DEVELOPMENTAL PSYCHOLOGY

A study of the basic principles of early human growth and development. *Prerequisite: Psychology 10.*

### 32 ADOLESCENT PSYCHOLOGY

The study areas will include theories of adolescence; current issues raised by as well as about the "generation of youth"; research findings bearing on theories and issues of growth beyond childhood; and self-exploration. *Prerequisite: Psychology 10.*

### 33 PHYSIOLOGICAL PSYCHOLOGY

An introduction to the physiological psychologist's method of approach to the understanding of behavior as well as the set of principles that relate the function and organization of the nervous system to the phenomena of behavior. The course emphasis is on the relationship between brain function and the physiological bases of learning, perception, and motivation. Laboratory experience includes both behavioral testing and basic small-animal neurosurgical technique as well as histological methodology. *Prerequisite: Psychology 20 or Biology 23, and Math 13.*

### 34 PRINCIPLES OF MEASUREMENT

Psychometric method and theory, including scale transformation, norms, standardization, validation procedures and estimation of reliability. *Prerequisite: Psychology 10, Mathematics 13.*

### 35 HISTORY AND SYSTEMS OF PSYCHOLOGY

The growth of scientific psychology and the theories and systems that have accompanied its development. *Prerequisite: 4 courses in Psychology.*

### 37 COGNITION

An investigation of human mental processes along the two major dimensions of directed and undirected thought. Topic areas include: recognition, attention, conceptualization, problem-solving, fantasy, language, dreaming, and creativity. *Prerequisite: Psychology 10.*

### 38 EDUCATIONAL PSYCHOLOGY

An introduction to the empirical study of the teaching-learning process. Areas considered may include educational objectives, pupil and teacher characteristics, concept learning, problem solving and creativity, attitudes and values, motivation, retention and transfer, and evaluation and measurement. *Prerequisite: Psychology 10, and Mathematics 13 or consent of instructor.*

40 ADVANCED EXPERIMENTAL DESIGN

Consideration of a variety of designs currently used in Psychology with emphasis on the appropriate statistical analyses. *Prerequisite: Psychology 20 and 21.*

48-49 PRACTICUM IN PSYCHOLOGY

An off-campus involvement in the application of psychological skills and principles in institutional settings. The experience includes training in behavior modification and traditional counseling techniques as applied in prisons, mental health centers, and schools for the mentally retarded. Classroom training focuses on various therapeutic techniques and on the student's understanding of himself in the counselor role. *Prerequisite: Consent of instructor.*



# RELIGION

Professor: Guerra (*Chairman*)

Associate Professor: Rhodes

Assistant Professors: Hughes, Lutz, Neufer

A major consists of ten courses including 10, 13, and 14. At least seven courses must be taken in the department. The following courses may be counted toward fulfilling the major requirements: Greek 11 and 12, Hebrew 11 and 12, History 41 and 48, Philosophy 25, and Sociology 33.

## 10 PERSPECTIVES ON RELIGION

An exploration of religious responses to ultimate problems of human existence. Through discussion of selections by Protestant, Catholic, Jewish, and humanist writers, students are encouraged to grapple with such questions as the nature and language of religion, the existence and knowledge of God, the inter-play of religion and culture, and the religious analysis of the human predicament.

## 13 OLD TESTAMENT FAITH AND HISTORY

A critical examination of the literature within its historical setting and in the light of archeological findings to show the faith and religious life of the Hebrew-Jewish community in the biblical period, and an introduction to the history of interpretation with an emphasis on contemporary Old Testament criticism and theology.

## 14 NEW TESTAMENT FAITH AND HISTORY

A critical examination of the literature within its historical setting to show the faith and religious life of the Christian community in the biblical period, and an introduction to the history of interpretation with an emphasis on contemporary New Testament criticism and theology.

## 20 GOD AND MAN IN WESTERN CULTURE I

An inquiry into the changing images of God and man in Western Culture, as these have been influenced by various religious traditions, particularly the Christian. The course will deal with leading men and motifs from St. Paul through the Reformation, and up to Eighteenth Century Deism. *Prerequisite: Religion 10 or 14, or consent of instructor.*

## 21 GOD AND MAN IN WESTERN CULTURE II

A continuation of Religion 20, beginning with the attempts of Schleiermacher and Hegel to re-integrate religion and culture, tracing the subsequent process through Niebuhr and Tillich to the present "Post-Liberal" period. *Prerequisite: Religion 20, or consent of instructor.*

## 23 RELIGIONS OF THE WORLD: AFRICAN RELIGIONS

Primitive man's beliefs about himself, his gods, his oneness with the land and his fellow animals, and his feelings about community will be investigated.

## 24 RELIGIONS OF THE WORLD: ISLAM AND JUDAISM

Major emphasis upon tradition and contemporary forms of Islam and Judaism, their growth and development investigating their current status and their major problems in the Middle East, Africa, Asia, and the United States.

## 25 RELIGIONS OF THE WORLD: ORIENTAL RELIGION

A phenomenology of the formative forces and concepts of Indian, Chinese, and Japanese religions; special attention devoted to social and political relations, mythical and aesthetic forms. East and West encounter.

## 26 HISTORY AND RELIGION OF THE ANCIENT NEAR EAST

A study of the religions and history of Mesopotamia, Anatolia, Syria-Palestine, and Egypt from the rise of Sumerian culture to Alexander the Great.

27 CULTURE OF THE ANCIENT NEAR EAST

An analysis of the culture of the Ancient Near East with special reference to the role of religion. The course will be taught with an emphasis on archeological findings.

31 CHRISTIAN SOCIAL ETHICS

An unfolding of ethics as horizon, engagement, destiny; an interdisciplinary theoretical study closely related to the practical problems of violence and power, racism and revolution, assassination and authority.

32 CONTEMPORARY PROBLEMS IN CHRISTIAN SOCIAL ETHICS

An examination of the approach of religion and other disciplines to an issue of current concern; prospective topics include the ethics of violence, the social thought of Jacques Ellul, and the ethics of genetic control. *Prerequisite: Religion 31, or consent of instructor.*

33 ROMAN CATHOLIC THOUGHT

The development of Thomism, Neo-Thomism, and Transcendental Thomism; limited attention given to pastoral and ecclesiological issues in the post-conciliar era after Vatican II.

35 REDACTION HISTORY AND THE GOSPELS

Contemporary views of the relationship between the evangelist's theology and his way of arranging the gospel tradition. A study of the several interpretations of Jesus both in the Synoptics and in the Fourth Gospel.

36 ADVANCED OLD TESTAMENT TOPICS

A critical examination of one topic in Old Testament study from among the following: prophecy, the Pentateuch, wisdom literature, biblical theology. The content of the course will vary from year to year.

38 ADVANCED NEW TESTAMENT TOPICS

A critical examination of one topic in New Testament study from among the following: The Teaching of Jesus, New Testament Christology, Pauline Theology, Current issues in New Testament Interpretation. The content of the course will vary from year to year.

41 CONTEMPORARY RELIGIOUS ISSUES

A study of the theological significance of some contemporary intellectual developments in western culture. The content of this course will vary from year to year. Subjects studied in recent years include the following: the theological significance of Freud, Marx, and Nietzsche; Christianity and existentialism; theology and depth psychology; and the religious dimension of contemporary literature. *Prerequisite: Religion 10.*

42 THE NATURE AND MISSION OF THE CHURCH

A study of the nature of the church and its mission in contemporary society including an analysis of the role of the church and an examination of ways of renewal.

43 THE EDUCATIONAL MINISTRY OF THE CHURCH

A study of religious education as a function of the church with special attention given to the nature and objectives of Christian education, methods of teaching religion, and the relations between faith and learning.

45 JUDAISM AND CHRISTIANITY IN THE NEW TESTAMENT

A study of the ways in which New Testament Christianity is indebted to Judaism in theology, ethics, and institutions.

46 PALESTINIAN ARCHEOLOGY

A study of basic archeological method in addition to representative excavations and artifacts from the various historical eras as are found in Palestine and its environs.

# SOCIOLOGY AND ANTHROPOLOGY

Professors: McCrary (*Chairman*), Mook  
Assistant Professor: Arroyo  
Instructor: Rux

A major consists of Sociology 10, 14, 44, 47, and four other courses, which may include Religion 46.

## 10 INTRODUCTION TO SOCIOLOGY

An introduction to the problems, concepts, and methods in sociology today, including analysis of stratification, organization of groups and Institutions, social movements, and deviants in social structure.

## 14 INTRODUCTION TO ANTHROPOLOGY

Prehistoric and primitive peoples and cultures; primitive customs and institutions compared with those of modern man.

## 20 MARRIAGE AND THE FAMILY

The history, structure, and functions of modern American family life, emphasizing dating, courtship, factors in marital adjustment, and the changing status of family members. *Prerequisite: Sociology 10 or consent of instructor.*

## 22 FOLK SOCIETY

Comparative study of several folk societies, with emphasis upon the Pennsylvania Amish; folk culture contrasted with urban-industrial civilization.

## 24 RURAL AND URBAN COMMUNITIES

The concept of community is treated as it operates and affects individual and group behavior in rural, suburban, and urban settings. Emphasis is placed upon characteristic institutions and problems of modern city life. *Prerequisite: Sociology 10 or consent of instructor.*

## 26 SOCIAL MOVEMENTS

An analysis of the dynamics, structure, and reaction to social movements with focus on contemporary social movements. *Prerequisite: Sociology 10 or consent of instructor.*

## 30 CRIMINOLOGY

The nature, genesis, and organization of criminal behavior are examined from both group and individual viewpoints. Juvenile delinquency and the treatment of crime are presented. *Prerequisite: Sociology 10 or consent of instructor.*

## 32 INSTITUTIONS

Introduces the student to the sociological concept of social institution, the types of social institutions to be found in all societies, and the interrelationships between the social institutions within a society. The course is divided into two basic parts: 1. That aspect which deals with the systematic organization of society in general, and 2. The concentration on a particular social institution: economic, political, educational, and social welfare. *Prerequisite: Sociology 10 or consent of instructor.*

## 33 SOCIOLOGY OF RELIGION

An examination of the major theories of the relationship of religion to society, and a survey of sociological studies of religious behavior. *Prerequisite: Sociology 10 or consent of instructor.*

## 34 RACIAL AND CULTURAL MINORITIES

A study of the adjustments of minority racial, cultural, and national groups in modern America. Attention is also given to minority problems within their world setting. *Prerequisite: Sociology 10 or consent of instructor.*

35 CULTURAL ANTHROPOLOGY

Primitive and peasant economy, society, government, religion, and art, the social and cultural backgrounds of personality development. *Prerequisite: Sociology 14 or consent of instructor.*

37 ANTHROPOLOGY OF NORTH AMERICA

Ethnographic survey of native North American Eskimo and Indian cultures, with attention to changes in native lifeways due to European contacts. *Prerequisite: Sociology 14 or consent of instructor.*

41 SOCIAL STRATIFICATION

An analysis of the nature of stratification systems, with special reference to American social structure. *Prerequisite: Sociology 10 or consent of instructor.*

43 DEVIANT BEHAVIOR

An inquiry into the various types of deviant behavior, that will vary each semester, covering such topics as: alcoholism, mental illness, gambling, and narcotics. *Prerequisite: Sociology 10 or consent of instructor.*

44 SOCIAL THEORY

The history of the development of sociological thought from its earliest philosophical beginnings is treated through discussions and reports. Emphasis is placed upon sociological thought since the time of Comte. *Prerequisite: Sociology 10 or consent of instructor.*

45 ETHNOLOGICAL THEORY

Theories concerning man and his culture, with emphasis on interpretations since 1850. *Prerequisite: Sociology 14 and consent of instructor.*

47 RESEARCH METHODS IN SOCIOLOGY

Study of the research process in sociology, including formation of research design (theory, methodology, and techniques), and practical application in the investigation of a research problem. *Prerequisite: Mathematics 5 and Sociology 10 and consent of instructor.*

48-49 PRACTICUM IN SOCIOLOGY

Introduces the student to a practical work experience involving community agencies in order to effect a synthesis of the student's academic course work and its practical applications in a community agency. Specifics of the course to be worked out in conjunction with department, student, and agency. *Prerequisite: Sociology 10 or consent of instructor.*



# THEATRE

Professor: Falk (*Chairman*)

Instructor: Dartt

Part-Time Instructor: Pitzer

The major consists of eight courses, except Theatre 1, with a concentration in Acting, Directing, or Design. The Fine Arts requirement may be satisfied by selecting any two courses, except Theatre 1. In addition to the departmental requirements, majors are urged to include courses in Art, Music, Psychology, and English.

## 1 FUNDAMENTALS OF SPEECH

The dynamics of oral communication. The development of elementary principles of simple oral communication through lectures, prepared assignments in speaking, and informal class exercises. Utilizes video tape sequences for "instant feedback" to students.

## 10 INTRODUCTION TO THEATRE

Designed as a comprehensive introduction to the aesthetics of theatre. From the spectator's point of view, the nature of theatre will be explored including dramatic literature and the integrated functioning of acting, directing, and all production aspects.

## 11 INTRODUCTION TO FILM

A basic course in understanding the film medium. The class will investigate film technique through lectures and by viewing regular weekly films chosen from classic, contemporary, and experimental short films.

## 12 HISTORY OF THEATRE I

A detailed study of the development of theatre from the Greeks to the early realistic period. *Alternate years.*

## 13 HISTORY OF THEATRE II

The history of the theatre from 1860. *Alternate years.*

## 14 ORAL INTERPRETATION OF LITERATURE

The fundamental principles and methods of oral reading and the interpretation of literature are introduced. Materials will be chosen from poetry, prose, the novel, and drama.

## 15 PLAYWRITING AND DRAMATIC CRITICISM

An investigation of the techniques of playwriting with an emphasis on creative writing, culminating in a written one-act play, plus an historical survey of dramatic criticism from Aristotle to the present, with emphasis upon developing the student's ability to write reviews and criticism of theatrical productions and films. *Alternate years.*

## 18 PLAY PRODUCTION FOR COMMUNITY AND SECONDARY SCHOOLS

Stagecraft and the various other aspects of play production are introduced. Through material presented in the course and laboratory work on the Arena Theatre stage, the student will acquire experience to produce theatrical scenery for community and secondary school theatre.

## 20 CREATIVE DRAMA FOR CHILDREN

Designed especially for those intending to be teachers, this course explores the dramatic possibilities of creative playmaking for children on all grade levels. Special emphasis is placed on storytelling, dramatization, pantomime, and dramatic play.

## 24 INTRODUCTION TO ACTING

An introductory study of the actor's preparation, with emphasis on developing the actor's creative imagination through improvisations and scene study.

## 26 INTRODUCTION TO DIRECTING

An introductory study of the function of the director in preparation, rehearsal, and performance. Emphasis is placed on developing the student's ability to analyze scripts and on the development of the student's imagination.

28 INTRODUCTION TO SCENE DESIGN AND STAGECRAFT

An introduction to the theatre with an emphasis on stagecraft. The productions each semester serve as the laboratory to provide the practical experience necessary to understand the material presented in the classroom.

29 MARIONETTE PRODUCTION

Introduces the construction, costuming, and performing of a play through the medium of string puppets.

31 ADVANCED TECHNIQUES OF PLAY PRODUCTION

A detailed consideration of the interrelated problems and techniques of play analysis, production styles, and design. Offered summer only.

34 INTERMEDIATE STUDIO: ACTING

Instruction and practice in character analysis and projection, with emphasis on vocal and body techniques.

35 THEORIES OF THE MODERN THEATRE

An advanced course exploring the philosophical roots of the modern theatre from the birth of realism to the present, and the influences on modern theatre practice. Selected readings from Nietzsche, Marx, Jung, Freud, Whitehead, Kierkegaard, Sartre, Camus, as well as Antoine, Copeau, Stanislavski, Shaw, Meyerhold, Artaud, Brecht, Brook, Grotowski. *Alternate years.*

36 INTERMEDIATE STUDIO: DIRECTING

Emphasis is placed on the student's ability to function in preparation and rehearsal. Practical experience involves the directing of scenes from contemporary theatre.

38 INTERMEDIATE STUDIO: SCENE AND LIGHTING DESIGN

The theory of stage and lighting design with special emphasis on their practical application to the theatre.

40 MASTERS OF WORLD DRAMA

An intensive and detailed analysis of the plays, and related works, including criticism of great authors, that have shaped world theatre. Authors to be selected on the basis of interest of students and faculty. At times, more than one author will be treated in a term. Ibsen, Brecht, Moliere, Williams, Albee.

44 ADVANCED STUDIO: ACTING

Preparation of monologues and two-character scenes. Contemporary and classical. The student will appear in major campus productions.

46 ADVANCED STUDIO: DIRECTING

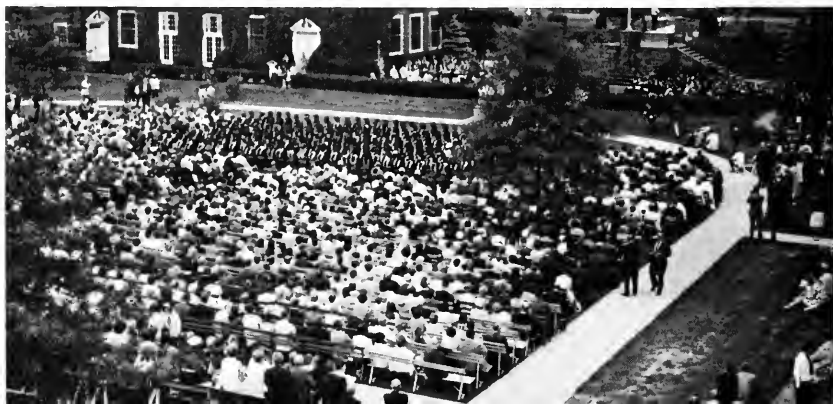
Emphasis will be placed on the student's ability to produce a major three-act play from the script to the stage for public performance.

48 ADVANCED STUDIO: DESIGN

Independent work in conceptual and practical design. The student will design one full production as his major project.

49 ADVANCED STUDIO: PROPERTIES AND COSTUME DESIGN

The theory of stage costume and property design and its practical application to the theatre. *Prerequisite: Consent of Instructor.*





COLLEGE PERSONNEL

BOARD OF TRUSTEES

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W. Gibbs McKenney, Jr.	Vice-Chairman
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Kenneth E. Himes	Treasurer

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Arnold A. Phipps, II	Williamsport
George L. Stearns, II	Williamsport
The Rev. L. Elbert Wilson	Orlando, Fla.

*Term Expires 1974*

Elected	
1967 The Rev. Grantas E. Hoopert, D.D.	York
1965 James G. Law	Bloomsburg
1971 The Rev. Harvey W. Marsland	Allentown
1970 John E. Person, Jr.	Williamsport
1965 Hon. Herman T. Schneebeli	Williamsport
1972 Donald E. Shearer, M.D.	Montoursville
1969 Charles J. Stockwell	Williamsport
1961 Nathan W. Stuart	Williamsport
1971 Willis W. Willard, III, M.D.	Hershey
<i>(Alumni Representative)</i>	
1958 W. Russell Zacharias	Allentown

*Term Expires 1975*

Elected

1969 Richard R. Cramer, D.D.S. ....	Hershey
1973 Guy M. Davies .....	Lancaster
1969 Samuel H. Evert .....	Bloomsburg
1972 The Rev. Brian A. Fetterman .....	Lewistown
1965 Walter J. Heim .....	Montoursville
1969 Kenneth E. Himes .....	Williamsport
1970 Woodrow A. Knight .....	Williamsport
1972 John W. Lundy .....	Williamsport
1969 Mrs. Donald G. Remley .....	Williamsport
1972 Harold H. Schreckengast, Jr. ....	Jenkintown
<i>(Alumni Representative)</i>	
1967 The Rev. Donald H. Treese .....	Carlisle

TRUSTEES

*Term Expires 1976*

Elected

1964 John G. Detwiler .....	Williamsport
1948 Frank L. Dunham .....	Wellsboro
1970 Walter T. Dunston, D.D.S. ....	Philadelphia
1951 Paul G. Gilmore .....	Williamsport
1973 Robert G. Little, M.D. ....	Harrisburg
<i>(Alumni Representative)</i>	
1964 W. Gibbs McKenney, Jr. ....	Baltimore, Md.
1973 G. Jackson Miller .....	Altoona
1972 The Rev. Paul E. Myers, D.D. ....	Hershey
1958 Fred A. Pennington .....	Mechanicsburg
1961 The Rev. Wallace F. Stettler, HH.D. ....	Kingston
1970 William E. Strasburg, Litt.D. ....	Gwynedd Valley

EXECUTIVE COMMITTEE

Walter J. Heim, Chairman

Richard R. Cramer	Woodrow A. Knight
John G. Detwiler	W. Gibbs McKenney, Jr.
Frank L. Dunham	John E. Person, Jr.
Samuel H. Evert	Charles J. Stockwell
Paul G. Gilmore	Nathan W. Stuart
Hon. Charles F. Greevy	W. Russell Zacharias
The Rev. Grantas E. Hoopert	



## ADMINISTRATIVE STAFF

- HAROLD H. HUTSON (1969) ..... President  
*B.A., LL.D., Wofford College; B.D., Duke University; Ph.D., University of Chicago; L.H.D., Ohio Wesleyan*
- JAMES R. JOSE (1970) ..... Dean of the College  
*B.A., Mount Union College; M.A., Ph.D., The American University*
- KENNETH E. HIMES (1948) ..... Treasurer  
*B.S., Drexel University; G.S.B., Rutgers University*
- OLIVER E. HARRIS (1956) ..... Director of Development  
*A.B., M.S., The Pennsylvania State University*
- R. ANDREW LADY (1957) ..... Assistant to the President  
*A.B., Lycoming College; M.S., D.Ed., The Pennsylvania State University*
- JACK C. BUCKLE (1957) ..... Dean of Student Services  
*A.B., Juniata College; M.S., Syracuse University*
- WILLIAM L. BAKER (1965) ..... Business Manager &  
 Student Aid Director  
*B.S. Lycoming College*
- ANTHONY L. GRILLO (1969) ..... Librarian  
*B.S., The Pennsylvania State University; M.S. in L.S., Villanova University*
- FRANK J. KAMUS (1963) ..... Director of Admissions  
*B.S., Lock Haven State College*
- ROBERT J. GLUNK (1965) ..... Registrar and Assistant to the Dean  
*A.B., Lycoming College; M.A., The Pennsylvania State University*
- DAVID G. BUSEY (1954) ..... Director of Athletics  
*B.S., M.S., University of Illinois*
- CLARENCE W. BURCH (1962) ..... Associate Director of Athletics  
*B.S., M.Ed., University of Pittsburgh*
- DALE V. BOWER (1968) ..... Director of Alumni Affairs  
*B.S., Lycoming College; B.D., United Theological Seminary*
- BRUCE L. SWANGER (1968) ..... Director of Public Relations  
*A.B., Bucknell University*
- JOSEPH P. LAVER, JR. (1969) ..... Director of Publications  
*A.B., University of Pennsylvania; M.S., University of Bridgeport*
- L. PAUL NEUFER (1960) ..... Director of Religious Activities  
*A.B., Dickinson College; S.T.B., S.T.M., Boston University*
- ROBERT L. CURRY, JR. (1972) ..... Assistant in Athletics  
*A.B., Lycoming College*
- THOMAS C. DEVLIN (1971) ..... Associate Dean of Student Services  
*B.A., State University of New York, Geneseo; M.A., Bowling Green University*
- DOUGLAS J. KEIPER (1970) ..... Associate Dean of Student Services  
*A.B., Lycoming College; M.Ed., The Pennsylvania State University*
- TONY K. SCHEPIS (1971) ..... Assistant Director of Admissions  
*A.B., Lycoming College*
- GRETCHEN O. SCHIPPER (1972) ..... Assistant Director of Admissions  
*B.S., Simpson College*
- R. ALBION SMITH (1971) ..... Associate Dean of Student Services  
*B.S., Springfield College; M.S.S., Syracuse University*
- ANNA D. WEITZ (1970) ..... Associate Dean of Student Services  
*A.B., Boston University; M.S., State University of New York, Albany*

## FACULTY

### EMERITI

- MABEL K. BAUER . . . . . Professor Emeritus of Chemistry  
*B.S., Cornell University; M.S., University of Pennsylvania*
- ARNOLD J. CURRIER . . . . . Professor Emeritus of Chemistry  
*A.B., Colgate University; M.S., The Pennsylvania State University; Ph.D., Cornell University*
- LEROY F. DERR . . . . . Professor Emeritus of Education  
*A.B., Ursinus College; M.A., Bucknell University; Ed.D., University of Pittsburgh*
- ROBERT H. EWING . . . . . Professor Emeritus of History  
*A.B., College of Wooster; M.A., University of Michigan; HH.D., Lycoming College*
- W. ARTHUR FAUS . . . . . Professor Emeritus of Philosophy  
*A.B., Dickinson College; S.T.B., Ph.D., Boston University*
- PHIL G. GILLETTE . . . . . Associate Professor Emeritus of Spanish  
*A.B., Ohio University; M.A., Columbia University*
- HAROLD W. HAYDEN . . . . . Librarian Emeritus and Professor Emeritus  
of Library Services  
*A.B., Nebraska State Teachers College; B.S., University of Illinois; M.A. in L.S., University of Michigan*
- GEORGE W. HOWE . . . . . Professor Emeritus of Geology  
*A.B., M.S., Syracuse University; Ph.D., Cornell University*
- MAURICE A. MOOK . . . . . Professor Emeritus of Anthropology  
*B.A., Allegheny College; M.A., Northwestern University; Ph.D., University of Pennsylvania*
- DONALD G. REMLEY . . . . . Assistant Professor Emeritus of  
Mathematics and Physics  
*A.B., Dickinson College; M.A., Columbia University*
- GEORGE S. SHORTESS . . . . . Professor Emeritus of Biology  
*A.B., Johns Hopkins University; M.A., Columbia University; Ph.D., Johns Hopkins University*
- JOHN A. STUART . . . . . Professor Emeritus of English  
*B.A., William Jewell College; M.A., Ph.D., Northwestern University*
- HELEN B. WEIDMAN . . . . . Professor Emeritus of Political Science  
*A.B., M.A., Bucknell University; Ph.D., Syracuse University*



## PROFESSORS

- ROBERT F. FALK (1970) ..... Theatre  
*B.A., B.D., Drew University; M.A., Ph.D., Wayne State University*
- MORTON A. FINEMAN (1966) ..... Physics  
*A.B., Indiana University; Ph.D., University of Pittsburgh*
- JOHN P. GRAHAM (1939) ..... English....Mace Bearer  
*Ph.B., Dickinson College; M.Ed., The Pennsylvania State University*
- EDUARDO GUERRA (1960) ..... Religion  
*B.D., Southern Methodist University; S.T.M., TH.D., Union Theological Seminary*
- JAMES K. HUMMER (1962) ..... Chemistry  
*B.N.S., Tufts University; M.S., Middlebury College; Ph.D., University of North Carolina*
- JAMES R. JOSE (1970) ..... Political Science....Dean of the College  
*B.A., Mount Union College; M.A., Ph.D., American University*
- JACK S. McCRARY (1969) ..... Sociology and Anthropology  
*B.A., M.A., Southern Methodist University; Ph.D., Washington University*
- WALTER G. McIVER (1946) ..... Music  
*Mus.B., Westminster Choir College; A.B., Bucknell University; M.A., New York University*
- GLEN E. MORGAN (1961) ..... Music  
*B.M., M.M., Ph.D., Indiana University*
- LORING B. PRIEST (1949) ..... History  
*LITT.B., Rutgers University; M.A., Ph.D., Harvard University*
- ROBERT W. RABOLD (1955) ..... Economics  
*B.A., The Pennsylvania State University; M.A., Ph.D., University of Pittsburgh*
- JOHN A. RADSPINNER (1957) ..... Chemistry  
*B.S., University of Richmond; M.S., Virginia Polytechnic Institute; D.SC., Carnegie-Mellon University*
- LOGAN A. RICHMOND (1954) ..... Accounting  
*B.S., Lycoming College; M.B.A., New York University; C.P.A. (Pennsylvania)*
- FRANCES KNIGHTS SKEATH (1947) ..... Mathematics  
*A.B., M.A., Bucknell University; D.Ed., Pennsylvania State University*

## ASSOCIATE PROFESSORS

- DAVID G. BUSEY (1954) . . . . . Physical Education.... Director of Athletics  
*B.S., M.S., University of Illinois*
- BERNARD P. FLAM (1963) . . . . . Spanish  
*A.B., New York University; M.A., Harvard University; Ph.D., University of Wisconsin*
- ERNEST D. GIGLIO (1972) . . . . . Political Science  
*B.A., Queens College; M.A., The State University of New York at Albany; Ph.D., Syracuse University*
- DAN D. GUSTAFSON (1971) . . . . . English  
*B.A., Amherst College; M.A., University of California; Ph.D., University of Nebraska*
- JOHN G. HANCOCK (1967) . . . . . Psychology  
*B.S., M.S., Bucknell University; Ph.D., The Pennsylvania State University*
- JOHN G. HOLLENBACK (1952) . . . . . Business Administration....  
*B.S., M.B.A., University of Pennsylvania* Marshal of the College
- ALDEN G. KELLEY (1966) . . . . . Biology  
*B.S., M.S., Iowa State University; Ph.D., Purdue University*
- DAVID J. LOOMIS (1967) . . . . . Psychology  
*A.B., Lycoming College; M.S., Bucknell University; Ph.D., Syracuse University*
- GERTRUDE B. MADDEN (1958) . . . . . English  
*A.B., University of Pennsylvania; M.A., Bucknell University*
- ROBERT J. B. MAPLES (1969) . . . . . French  
*A. B., University of Rochester; Ph.D., Yale University*
- ROGER W. OPDAHL (1963) . . . . . Economics  
*A.B., Hofstra College; M.A., Columbia University; D.Ed., The Pennsylvania State University*
- O. THOMPSON RHODES (1961) . . . . . Religion  
*B.S., University of Cincinnati; B.D., Ph.D., Drew University*
- MARY LANDON RUSSELL (1936) . . . . . Music  
*Mus.B., Susquehanna University Conservatory of Music; M.A., The Pennsylvania State University*
- LOUISE R. SCHAEFFER (1962) . . . . . Education  
*A.B., Lycoming College; M.A., Bucknell University; D.Ed., The Pennsylvania State University*
- JAMES W. SHEAFFER (1949) . . . . . Music  
*B.S., Indiana University of Pennsylvania; M.S., University of Pennsylvania*
- WILLY SMITH (1966)\* . . . . . Physics  
*B.S.E., The University of the Republic (Uruguay); M.S.E., Ph.D., University of Michigan*

\* On Leave 1973-74

## ASSISTANT PROFESSORS

- ROBERT B. ANGSTADT (1967) .....Biology  
*B.S., Ursinus College; M.S., Ph.D., Cornell University*
- VIRGINIA R. ARROYO (1970) .....Sociology  
*B.S., M.A., Columbia University*
- MYRNA A. BARNES (1959) .....Library Services  
*A.B., University of California at Los Angeles; M.S. in L.S., Drexel University*
- FRANCIS L. BAYER (1967) .....English  
*B.A., St. Mary's College; B.S., M.A., Bowling Green State University*
- WILLIAM P. BRITTAIN (1972) .....Psychology  
*B.A., M.A., Wichita State University; Ph.D. Texas Christian University*
- CLARENCE W. BURCH (1962) .....Physical Education  
*B.S., M.Ed., University of Pittsburgh*
- JOHN H. CONRAD (1959) .....Education  
*B.S., Mansfield State College; M.A., New York University*
- JACK D. DIEHL, JR., (1971) .....Biology  
*B.S., M.A., Sam Houston State College; M.S., Ph.D., University of Connecticut*
- LYDIA A. DUFOUR (1970) .....Spanish  
*B.A., Newcomb College; M.A., Tulane University*
- RICHARD W. FELDMANN (1965) ..... Mathematics  
*A.B., M.A., University of Buffalo*
- F. CATHARINE FISHER (1968) .....Library Services  
*B.A., Susquehanna University*
- WILLIAM D. FORD (1972) .....English  
*B.A., Occidental College; M.A., M.F.A., Ph.D., University of Iowa*
- DAVID A. FRANZ (1970) .....Chemistry  
*B.A., Princeton; M.A., The Johns Hopkins University; Ph.D., University of Virginia*
- CHARLES L. GETCHELL (1967) .....Mathematics  
*B.S., University of Massachusetts; M.A., Harvard University*
- ROGER A. GOODMAN (1971) .....Education  
*B.A., Dickinson College; M.Ed., Temple University*
- WENRICH H. GREEN (1968) .....Biology  
*A.B., Lycoming College; M.S., The Pennsylvania State University*
- STEPHEN R. GRIFFITH (1970) .....Philosophy  
*A.B., Cornell University; M.A., Ph.D., University of Pittsburgh*
- ANTHONY L. GRILLO (1969) .....Library Services....Librarian  
*B.S., The Pennsylvania State University; M.S. in L.S., Villanova University*
- THOMAS J. HENNINGER (1966)\*\* ..... Mathematics  
*B.S., Wake Forest College; M.A., University of Kansas*
- OWEN F. HERRING (1965) .....Philosophy  
*B.A., Wake Forest College*

\*\*On Leave Second Semester 1973-74

- OCTAVIA HUGHES (1971) ..... Art  
*B.A., Radcliffe College; M.A., Columbia University*
- RICHARD A. HUGHES (1970) ..... Religion  
*B.A., Indiana Central College; S.T.B., Ph.D., Boston University*
- M. RAYMOND JAMISON (1962) ..... Physics and Education  
*B.S., Ursinus College; M.S., Bucknell University*
- EMILY R. JENSEN (1969) ..... English  
*B.A., Jamestown College; M.A., University of Denver; Ph.D., The Pennsylvania State University*
- FORREST E. KEESBURY (1970) ..... Education  
*B.S., Defiance College; M.A., Bowling Green State University; D.Ed., Lehigh University*
- ELIZABETH H. KING (1958) ..... Business Administration  
*B.S., Geneva College; M.Ed., The Pennsylvania State University*
- ROBERT H. LARSON (1969) ..... History  
*B.A., The Citadel; M.A., Ph.D., University of Virginia*
- DAVID A. LUTZ (1971) ..... Religion  
*B.A., Bucknell University; B.D., Colgate-Rochester Divinity School; Ph.D., Drew University*
- PAUL A. MacKENZIE (1970) ..... German  
*A.B., A.M., Ph.D., Boston University*
- ROBERT F. MALCOLM (1970) ..... Business Administration  
*B.B.A., M.B.A., Eastern Michigan University*
- LYNDON J. MAYERS (1970) ..... Biology  
*B.S., University of Rhode Island; M.S., Ph.D., University of Maine*
- DONNA R. MILLER (1960) ..... Physical Education  
*B.S., Lock Haven State College; M.Ed., The Pennsylvania State University*
- L. PAUL NEUFER (1960)\*\* ..... Religion  
 Director of Religious Activities  
*A.B., Dickinson College; S.T.B., S.T.M., Boston University*
- RICHARD M. O'BRIEN (1971) ..... Psychology  
*A.B., Franklin College; M.A., Ph.D., West Virginia University*
- NELSON PHILLIPS (1959) ..... Physical Education  
*B.S., Springfield College*
- JOHN F. PIPER, JR. (1969) ..... History  
*A.B., Lafayette College; B.D., Yale University; Ph.D., Duke University*
- RANDY M. RASSOUL (1972) ..... French  
*B.A., University of Toledo; M.A., University of Michigan*
- DAVID J. RIFE (1970) ..... English  
*B.A., University of Florida; M.A., Southern Illinois University*
- MICHAEL G. ROSKIN (1972) ..... Political Science  
*A.B., University of California at Berkley; M.A., University of California at Los Angeles; Ph.D., American University*
- KENNETH R. SAUSMAN (1969) ..... Mathematics  
*A.B., Susquehanna University; M.S., Miami University, Ohio*

\*\*On Leave Second Semester 1973-74



- DAVID E. SAWYER (1970) ..... English  
*B.A., St. Olaf College; M.A., Ph.D., University of Nebraska*
- FERDINAND D. SCHOEMAN (1972) ..... Philosophy  
*B.A., University of Rochester; Ph.D., Brandeis University*
- K. BRUCE SHERBINE (1969) ..... Biology  
*A.B., Gettysburg College; M.S., Temple University; Ph.D., The Pennsylvania State University*
- ROGER D. SHIPLEY (1967) ..... Art  
*B.A., Otterbein College; M.F.A., Cranbrook Academy of Art*
- ANDREW B. TURNER (1969) ..... Chemistry  
 Assistant Marshal of the College  
*A.B., Franklin and Marshall College; M.S., Bucknell University; Ph.D., University of Virginia*
- SALLY F. VARGO (1953) ..... Physical Education  
*B.S., The Pennsylvania State University; M.S., Bucknell University*
- CHARLES E. WEYANT (1971) ..... Library Services  
*B.A., American University; M.S., Simmons College*
- JOHN M. WHELAN, JR. (1971) ..... Philosophy  
*B.A., University of Notre Dame*
- BUDD F. WHITEHILL (1957) ..... Physical Education  
*B.S., Lock Haven State College; M.Ed., The Pennsylvania State University*
- LEO K. WINSTON (1964) ..... Russian  
*B.A., Sir George Williams University; M.A., Universite de Montreal*

## INSTRUCTORS

- MAX E. AMEIGH (1969) ..... Art  
*B.S., Lycoming College; M.Ed., The Pennsylvania State University*
- GARY DARTT (1969) ..... Theatre  
*B.S., Augustana College*
- DENNIS KNEPP (1969) ..... Political Science  
*A.B., Lycoming College; M.A., University of West Virginia*
- ROBERT L. LAMBERT (1969) ..... Mathematics  
*A.B., Lycoming College; M.A., Bucknell University*
- JULIA M. RUX (1970) ..... Sociology  
*B.A., Hanover College; M.A., University of Wisconsin*
- R. SCOTT STAUFFER (1970) ..... Business Administration  
*B.S., Wilkes College, M.B.A., University of Miami*
- ROBERT A. ZACCARIA (1973) ..... Biology  
*B.A., Bridgewater College*

## LECTURER

- DON M. LARRABEE II (1972) ..... Lecturer in Law  
*A.B., Franklin and Marshall; LL.B., Fordham University*

## TEACHING FELLOW

- RICHARD R. ERICKSON (1973) ..... Physics  
*B.A., University of Minnesota; Ph.D., University of Chicago*

PART-TIME INSTRUCTORS

KATHERINE L. FETTER	Art
<i>B.S., Kutztown State College</i>	
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<i>B.S., The Pennsylvania State University</i>	
JEAN HORN	Mathematics
<i>B.A., Elmira College; M.S., The Pennsylvania State University</i>	
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MARTINE PICOT	French
<i>D.U.E.L., University of Lyon, France</i>	
SARA D. PITZER	Theatre
<i>B.A., M.A., Ph.D., The Pennsylvania State University</i>	

ADMINISTRATIVE ASSISTANTS

LOUISE BANKS	Secretary to the Librarian
BETTY BECK	Bookstore Assistant
VIRGINIA BELL	A. V. Co-ordinator
EMILY C. BIICHLER	Secretary to the Treasurer
RUSSELL BLOODGOOD	Manager of Food Service
MARY BOWER	Assistant in Registrar's Office
JEAN BREON	Secretary to Coaches
PAULINE F. BRUNGARD	Student Loan Coordinator
<i>B.S., Lycoming College</i>	
SHIRLEY CAMPBELL	Assistant in the Treasurer's Office
ELIZABETH COWLES	Career Development Secretary
MARGARET DEWAR	Secretary in the Admissions Office
SHIRLEY ABERNATHY	Secretary in Student Services Office
ROBERT L. EDDINGER	Director of Buildings and Grounds
JUNE L. EVANS	Secretary in the Education Office
S. JEAN GAIR	Faculty Secretary
ANNE GIBBON	Faculty Secretary
KITTY GLOSSER	Secretary in the Admissions Office
ESTHER GOOD	Supervisor of Housekeeping
YVONNE HAGENBUCH	Faculty Secretary
RALPH HELLAN	Computer Operations Programmer
HELEN C. HELLER	Secretary - Public Relations and Publications Offices
PHYLLIS HOLMES	Secretary to the President
DEE HORN	Secretary in Student Aid Office
MINNIE OLA HOUSEKNECHT	Library Assistant
NAOMI KEPNER	Switchboard Operator
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EDITH LIPFERT	Library Assistant

ISABEL CHIRDON ..... Secretary to Buildings and Grounds Director  
VIVIAN MEIKRANTZ ..... Secretary to the Dean of the College  
VICTORIA HAYES ..... Secretary to Coordinator of Computer Services  
PATRICIA MILLER ..... Secretary to the Registrar  
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    *A.B., Lycoming College*  
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SHARON SCARFO ..... Secretary in the Department of Athletics  
RUTH R. SCHULTZ ..... Faculty Secretary  
DOROTHY STREETER ..... Manager of the Bookstore  
BETTY JUNE SWANGER ..... Accountant and Office Manager  
VIRGINIA VAN HORN ..... Library Assistant  
IRENE VINCENT ..... Library Assistant  
JUNE WAGNER ..... Faculty Secretary  
MARGARET WISE ..... Secretary in the Admissions Office

MEDICAL STAFF

FREDERIC C. LECHNER, M.D. .... College Physician  
    *B.S., Franklin and Marshall College; M.D., Jefferson Medical College*  
ROBERT S. YASUI, M.D. .... College Surgeon  
    *M.D., Temple University*  
RUTH J. BURKET, R.N. .... College Nurse  
    *Hamot Hospital School of Nursing*  
EMALINE W. DEIBERT, R.N. .... College Nurse  
    *Williamsport Hospital School of Nursing*



## *Alumni*

### THE ALUMNI ASSOCIATION

The Alumni Association of Lycoming College has a membership of over seven thousand men and women. It is governed by an Executive Board of five officers and twenty-one members nominated and elected by the membership. The senior class, the student body, and the last graduating class also have representatives on the Executive Board. It annually elects a member to the Board of Directors of the College for a three-year term. The Director of Alumni Affairs directs the activities of the Alumni Office.

The Alumni Association of Lycoming College has two objectives: to promote the interests of the college, and to foster among its members loyalty and devotion to their alma mater. Any person who has successfully completed one year of study at Lycoming College or Williamsport Dickinson Junior College and is not enrolled as a full-time student at Lycoming College, and all former Williamsport Dickinson Seminary students are Association members.

Acting as the representative of alumni on the campus, and working also with undergraduates, the Alumni office aids in keeping alumni informed and interested in the program, growth, and activities of the college through regular publications mailed to all Alumni on record. Arrangements for Homecoming, Alumni Day, Class Reunions, club meetings and similar activities are coordinated through this office. The Alumni Association promotes group travel programs, supplies back-year class rings, and sells water colors of the campus and alumni chairs.

Through The Lycoming College Fund, the Alumni Office is closely associated with the development program of the college. Lycoming College holds Class A, B, and C memberships in the American Alumni Council. Communications to the Alumni Association should be addressed to the Alumni Office.

#### **The membership of the 1973-74 Alumni Executive Board is as follows:**

- President - Mr. George Nichols '59 — R.D.#2, Newton Road, Clarks Summit, Pa. 18411
- Vice-President - Col. Marshall Sanders '36 — 6925 River Oaks Drive, McLean, Va. 22101
- Recording Secretary - Mrs. Jack Breitenbach (Forrest Birkenstock '41) 535 Wilson Street, Williamsport, Pa. 17701
- Corresponding Secretary - Mrs. Larry Strauser (Keigh Cronauer '59) R. D. #3 Montoursville, Pa. 17754
- Treasurer - Mr. Tom Decker '66, 1218 S. Allen Street - Apt. #7, State College, Pa. 16801
- Last Retiring President - Mr. Daniel Fultz '57 — Wells College, Aurora, New York 13026

## *Alumni*

### Term Expires June 1974

- Mrs. Carolyn S. Durrwachter '32 & '62 — 246 Lincoln Avenue, Williamsport, Pa. 17701  
Mr. David Y. Brouse '47 — 830 St. David Road, Williamsport, Pa. 17701  
Mr. Melvin Campbell '70 — 3400 Eastern Blvd., Village East. Apt. K6, York, Pa. 17403  
Mr. John Eidam '66 — 226 Maple Avenue, Kingston, Pa. 18704  
Mr. Stephen Jusick '64 — 82 Stonicker Drive, Trenton, N.J. 08638  
Mr. Donald Nolder '66 — 41 W. Houston Avenue, Montgomery, Pa. 17752

### Term Expires June 1975

- Dr. James Hoffman '63 — 2300 24th Road So., Apt. 725, Arlington, Va. 22206  
Mr. William Worobec '70 — Oak Ridge Place, Williamsport, Pa. 17701  
Mr. Dennis Kitzman '59 — 174 Garnsey Road, Pittsford, New York 14544  
Mr. John Joe '59 — 360 East Drive, Coatesville, Pa. 19320  
Mrs. Earl Kirk (Martha Hickerson '62) — 1662 Carlyle Drive, Apt. 10J, Crofton, Md. 21113  
Mrs. David Hultsch (Lucinda Earle '65) — 1330 Linn Street, State College, Pa. 16801

### Term Expires June 1976

- Mr. Wenrich Green '65 — R.D.#1, Williamsport, Pa. 17701  
Mr. Eli Stavisky '61 — 110 Jermyn Drive, Clarks Summit, Pa. 18411  
Mr. William Humes '58 — 43A Palmer Square, Princeton, N.J. 08540  
Mr. Otto Sonder '46 — 161 Valley Heights Drive, Williamsport, Pa. 17701  
Mrs. Frances Gleason Levegood '52 — 214 Kendall Avenue, Jersey Shore, Pa. 17740  
Mr. W. Burton Richardson '61 — 296 Tarrington Road, Rochester, New York 14609  
Mr. Peter R. Bruguire '69 — 555 Patton Avenue, Apt. 16A, Long Branch, N.J. 07740

### Alumni Representatives to Lycoming College Board of Trustees

- (1974) Dr. Willis W. Willard, III '58 — 76 Boxwood Drive, Laurel Woods, Hershey, Pa. 17033  
(1975) Mr. Harold H. Shreckengast, Jr. '50 — 600 Cheltena Ave., Jenkintown, Pa. 19046  
(1976) Dr. Robert G. Little '63 — 4621 Tarryton Drive, Harrisburg, Pa. 17109

SEPTEMBER							OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
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DECEMBER							JANUARY							FEBRUARY						
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
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MARCH							APRIL							MAY						
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3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
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JUNE							JULY							AUGUST						
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2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
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## ACADEMIC CALENDAR 1973-74

### FALL SEMESTER

September	2 – <i>Sunday</i> 4 – <i>Tuesday</i> 5 – <i>Wednesday</i>	Dormitories open 2 p.m. Registration Classes begin.
November	20 – <i>Tuesday</i> 26 – <i>Monday</i>	Thanksgiving recess begins 8 p.m. Classes resume 8 a.m.
December	21 – <i>Friday</i>	Semester ends 5 p.m.

### SPRING SEMESTER

January	6 – <i>Sunday</i> 7 – <i>Monday</i>	Dormitories open 2 p.m. Registration, and classes begin.
March	1 – <i>Friday</i> 11 – <i>Monday</i>	Spring recess begins 5 p.m. Classes resume 8 a.m.
April	12 – <i>Good Friday</i> 26 – <i>Friday</i>	Afternoon classes suspended. Semester ends 5 p.m.
May	5 – <i>Sunday</i>	Commencement.

### MAY TERM (4 Weeks)

May	5 – <i>Sunday</i> 6 – <i>Monday</i> 31 – <i>Friday</i>	Dormitories open 2 p.m. Registration, and classes begin. Term ends.
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### SUMMER TERM (6 Weeks)

June	9 – <i>Sunday</i> 10 – <i>Monday</i>	Dormitories Open 2 p.m. Registration, and classes begin.
July	19 – <i>Friday</i>	Term ends.

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## COMMUNICATION WITH THE COLLEGE

This document contains pertinent information about the college, its philosophy, programs, policies, regulations, and offerings. All students and prospective students are urged to read it carefully and completely.

Inquiries of a specific nature should be addressed as follows:

Director of Admissions:

Admission to the freshman class.

Admission with advanced standing.

Re-entry of students to Lycoming College.

Requests for catalogs.

Treasurer:

Payment of college bills.

Inquiries concerning expenses.

Director of Student Aid:

Scholarships and loan funds for students in college.

Financial assistance for entering students.

Dean of the College:

Information about faculty and faculty activities.

Academic work of students in college.

Dean of Student Services:

Questions or problems concerning student's health.

Residence and campus regulations.

Registrar:

Requests for transcripts.

Notices of withdrawal.

Career Development Center:

Opportunities for self-help.

Employment while in college.

Employment upon graduation.

Director of Development:

Gifts or bequests.

Director of Alumni Affairs

Director of Public Relations

*Address:* LYCOMING COLLEGE, Williamsport, Pennsylvania 17701

*Telephone:* 326-1951 Area Code 717



ALL OF THE PROVISIONS IN THIS CATALOG ARE EFFECTIVE JUNE 1, 1973

*Lycoming College reserves the right to make any necessary changes in the academic calendar, charges, courses, or any other section of this catalog.*

# LYCOMING COLLEGE



Williamsport, Pennsylvania 17701  
Phone 717-326-1951

